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Registration of Organization Names in the United States

Proposed Foreign Government Regulations

Project Initiation Notification System (PINS)

ANSI Procedures require notification of ANSI by ANSI-accredited standards developers (ASD) of the initiation and scope of activities expected to result in new or revised American National Standards (ANS). Early notification of activity intended to reaffirm or withdraw an ANS and in some instances a PINS related to a national adoption is optional. The mechanism by which such notification is given is referred to as the PINS process. For additional information, see clause 2.4 of the ANSI Essential Requirements: Due Process Requirements for American National Standards.

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. Use the following Public Document Library url to access PDF & EXCEL reports of approved & proposed ANS: [List of Approved and Proposed ANS](#)

Directly and materially affected interests wishing to receive more information or to submit comments are requested to contact the standards developer directly within 30 days of the publication of this announcement.

ASSP (ASC A10) (American Society of Safety Professionals)

520 N. Northwest Highway, Park Ridge, IL 60068 www.assp.org

Contact: Tim Fisher; TFisher@ASSP.org

Revision

BSR/ASSP A10.8-202x, Scaffolding Safety Requirements (revision of ANSI/ASSP A10.8-2019)

Stakeholders: Occupational safety and health professionals working in the construction and demolition industry; Construction and demolition stakeholders working with scaffolds.

Project Need: Based upon the consensus of the A10 Constructions and Demolitions Committee and recommendations from the construction and demolition industry.

Scope: This standard establishes safety requirements for the construction, operation, maintenance, and use of scaffolds used in the construction, alteration, demolition, and maintenance of buildings and structures.

AVIXA (Audiovisual and Integrated Experience Association)

11242 Waples Mill Road, Suite 200, Fairfax, VA 22030 www.avixa.org

Contact: Loanna Overcash; lovercash@avixa.org

Revision

BSR/CTA J-STD 710-202x, Architectural Drawing Symbols for Integrated Technology Systems (revision of ANSI/CTA J-STD 710-2015)

Stakeholders: Consultant/Programmer Manufacturer/Independent Manufacturer's Reps/Distributor Technology Manager/presentations; Professional/student/end-user systems integrator/live events; Professional consumers, manufacturers, service providers and retailers.

Project Need: Standardized symbols offer a simple, yet powerful, way to communicate technologies in architectural drawings for use by architects, designers, builders, integrators, and installation contractors. Architects, designers, and installation contractors should use these symbols to indicate device locations on all floor plan and reflected ceiling plan documentation. Manufacturers should incorporate symbols in their documentation and training where applicable. Manufacturer user manuals should indicate the use of symbols and reinforce this standard.

Scope: This document provides a standardized set of symbols for site, floor, and reflected ceiling plans, as well as descriptions and guidelines for their use in documenting the integration of technology in drawings and plans. Such symbols may address the installation of technology and the systems that provide controls for technology, such as audiovisual, communication, control, environmental, and electronic security systems.

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 www.csagroup.org

Contact: David Zimmerman; ansi.contact@csagroup.org

Revision

BSR Z21.24-202x, Connectors for Gas Appliances (same as CSA 6.10) (revision of ANSI Z21.24-2015 (R2020))

Stakeholders: Certification, manufacturers.

Project Need: Correcting figures that are referenced incorrectly.

Scope: This Standard applies to newly produced gas appliance connectors, constructed entirely of new unused parts and materials, having nominal internal diameters of 1/4, 3/8, 1/2, 5/8, 3/4, and 1 in, and having fittings at both ends provided with taper pipe threads for connection to a gas appliance and to house piping. This Standard covers assembled appliance connectors not exceeding a nominal length of 6 ft (1.83 m). Connectors listed under this Standard are intended for use with gas appliances that are not frequently moved after installation. For the purpose of this Standard, an unused connector, including end fittings, is considered to be a connector that has not been installed.

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 www.csagroup.org

Contact: David Zimmerman; ansi.contact@csagroup.org

Revision

BSR Z21.101-202x, Gas Hose Connectors for Portable and Moveable Gas Appliances (same as CSA 8.5) (revision of ANSI Z21.101-2018)

Stakeholders: Certification, manufacturing.

Project Need: To revise measurements in Table 2.

Scope: This Standard applies to newly produced gas hose connectors for portable and moveable gas appliances constructed entirely of new, unused parts and materials, consisting of flexible tubing for gas leak resistance that: (a) when used indoors, hose connectors are to be equipped with a male plug fitting, which complies with ANSI Z21.90 • CSA 6.24, Gas Convenience Outlets and Optional Enclosures; (b) are for use with indoor/outdoor gas-fired appliances; (c) are for use on piping systems having fuel gas pressure not in excess of 5 psi (34.5 kPa); (d) are capable of operation at temperatures between -40°F (-40°C) and 300°F (149°C); (e) are of 1/4 in to 1-1/2 in nominal internal diameters; (f) are of not more than 6 ft (1.83 m) nominal length for indoor use; (g) are of not more than 15 ft (4.57 m) nominal length for outdoor use; (h) are equipped with standard taper pipe threads (conforming to the Standard for Pipe Threads, General Purpose (Inch), ASME B1.20.1 or the Standard for Dryseal Pipe Threads (Inch), ASME B1.20.3) on the end fittings attaching to the appliance and to the gas supply piping.

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 www.csagroup.org

Contact: David Zimmerman; ansi.contact@csagroup.org

Addenda

BSR/CSA NGV 4.6a-202x, Manually operated valves for natural gas dispensing systems (addenda to ANSI/CSA NGV 4.6 -2020)

Stakeholders: Consumers, manufacturers, gas suppliers.

Project Need: Correct a technical error in the most recent publication.

Scope: This standards contains safety requirements for the material, design, manufacture, and testing of manually operated valves for high-pressure natural gas. These requirements do not apply cylinder shut-off valves.

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 www.csagroup.org

Contact: David Zimmerman; ansi.contact@csagroup.org

New Standard

BSR/CSA Z21.105-202x, Indirect water heaters for use with external heat source (new standard)

Stakeholders: Manufacturers, users, and consumers.

Project Need: To support manufacturing and safe use of indirect water heaters with external heat source by providing requirements for the construction and testing.

Scope: This standard applies to the construction, performance, and installation procedures for a newly produced indirect water heater constructed entirely of new, unused parts and materials, designated for use with an external heat source of hot water with maximum temperature of 250°F or less.

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 www.cta.tech

Contact: Veronica Lancaster; vlancaster@cta.tech

Addenda

BSR/CTA 861.6-202x, Improvements on Audio and Video Signaling (addenda to ANSI/CTA 861-H-2021)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To address improvements to CTA 861-H, to include improvements on audio and video signaling.

Scope: This document will include improvements to CTA 861-H, to include improvements on audio and video signaling.

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 www.cta.tech

Contact: Veronica Lancaster; vlancaster@cta.tech

Revision

BSR/CTA 2037-C-202x, Determination of Television Set Power Consumption (revision and redesignation of ANSI/CTA 2037-B-2018)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To define a method for measuring television-set power consumption and related items.

Scope: This standard defines a method for measuring television-set power consumption and related items. It is intended for television sets powered from an external source. Television sets with a non-removable main battery are excluded.

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)

5001 East Philadelphia Street, Ontario, CA 91761 <https://www.iapmostandards.org>

Contact: Kyle Thompson; standards@iapmostandards.org

New Standard

BSR/IAPMO Z1119-202x, Water-Powered Sump Pumps (new standard)

Stakeholders: Manufacturers, users, inspectors, distributors designers, and contractors.

Project Need: Needed for testing and certification purposes.

Scope: This Standard covers water-powered sump pumps intended to provide emergency or backup groundwater or storm water removal from buildings in the event of power failure and specifies requirements for materials, physical characteristics, performance testing, and markings. Water-powered sump pumps covered by this Standard are not intended for the removal of sanitary sewer water (sewage).

MHI (Material Handling Industry)

8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217 www.mhi.org

Contact: Patrick Davison; pdavison@mhi.org

Revision

BSR MH27.1-202X, Patented Track Underhung Cranes and Monorail Systems (revision of ANSI MH27.1-2016)

Stakeholders: Manufacturers and users of monorail crane equipment.

Project Need: Revise existing standard to make it relevant to today's needs.

Scope: This standard applies to underhung cranes whose end trucks operate on the lower flange of a patented-track runway section; and to carriers (trolleys) operating on single-track patented-track monorail systems, including all curves, switches, transfer devices, lift and drop sections, and associated equipment. Systems used for transporting personnel require special considerations and are not included in this standard. This standard does not apply to enclosed-track runway sections, enclosed-track monorail systems, structural-shape runway section, or structural-shape monorail systems.

MHI (Material Handling Industry)

8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217 www.mhi.org

Contact: Patrick Davison; pdavison@mhi.org

Revision

BSR MH27.2-202X, Enclosed Track Underhung Cranes and Monorail Systems (revision of ANSI MH27.2-2017)

Stakeholders: Manufacturers and users of monorail crane equipment.

Project Need: Revise existing standard to make it relevant to today's needs.

Scope: This standard applies to underhung cranes whose end trucks operate on the internal flange of a runway using enclosed track section; and to trolleys (carriers) operating on single-track monorail systems, including all curves, switches, transfer devices, lift and drop sections, and associated equipment. Systems used for transporting personnel require special considerations and are not included in these specifications.

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 www.scte.org

Contact: Kim Cooney; kcooney@scte.org

Reaffirmation

BSR/SCTE 46-2014 (R202x), Test Method for AC to DC Power Supplies (reaffirmation of ANSI/SCTE 46-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

Scope: The purpose of this standard is to characterize, document, and define test methods for AC to DC outdoor plant power supplies. These tests involve the measurement of AC input parameters and DC output parameters. The application of uniform test methods for power supplies will allow fair performance comparisons to be made between different power supplies.

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 www.scte.org

Contact: Kim Cooney; kcooney@scte.org

Revision

BSR/SCTE 71-202x, Specification for Series 15, Braided, 75 , Coaxial, Multi-Purpose Cable (revision of ANSI/SCTE 71-2018)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

Scope: This specification defines the materials, electrical and mechanical properties of 75-ohm Braided, Low-Loss Subscriber Access Cable (Series 15) as defined in this standard.

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 www.scte.org

Contact: Kim Cooney; kcooney@scte.org

Revision

BSR/SCTE 78-202x, Test Method for Transfer Impedance (revision of ANSI/SCTE 78-2017)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

Scope: This procedure is for the measurement of transfer impedance of coaxial drop cables from 5 MHz to the maximum specified frequency using a terminated tri-axial test fixture.

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 www.scte.org

Contact: Kim Cooney; kcooney@scte.org

Revision

BSR/SCTE 156-202x, Specification for Mainline Plug (Male) to Cable Interface (revision of ANSI/SCTE 156-2019)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

Scope: The primary purpose of this specification is to assure acceptable electrical, mechanical, and environmental performance of the cable and connector interface. The scope of this standard will be directed to acceptable performance of impedance, galvanic action, loop resistance, cable retention, intermodulation distortion, signal response, RF shielding, and watertight seals.

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 www.scte.org

Contact: Kim Cooney; kcooney@scte.org

Revision

BSR/SCTE 158-202x, Recommended Environmental Condition Ranges for Broadband Communications Equipment (revision of ANSI/SCTE 158-2016)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

Scope: This document specifies the recommended environmental conditions (temperature, humidity, altitude, and vibration) for the operation, storage, and shipment of broadband communications equipment.

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 <https://ul.org/>

Contact: Susan Malohn; Susan.P.Malohn@ul.org

New National Adoption

BSR/UL 62109-3-202x, Standard for safety of power converters for use in photovoltaic power systems - Part 3: Particular requirements for electronic devices in combination with photovoltaic elements (national adoption with modifications of IEC 62109-3)

Stakeholders: PV Industry, AHJs, manufacturers of power converters, installers and authorized personnel for PV power systems, and certification bodies.

Project Need: Adoption of an International Standard that covers the particular safety requirements for electronic elements that are mechanically and/or electrically incorporated with photovoltaic (PV) modules or systems. This Standard is intended to be used in conjunction with ANSI/UL 62109-1 and BSR/UL 62109-2, and will supplement or modify those parts.

Scope: The standard gives requirements for products which consist of an electronic element and a PV element or PV module. Electronic devices combined with PV modules that perform functions such as, but not limited to, DC-DC or DC-AC power conversion, active diodes, protection, control, monitoring, or communication. These requirements specifically address such electronic devices used in combination with flat-plate photovoltaic (PV) modules. This part 3 references other parts of IEC 62109 and to PV module standards like IEC 61730, defining tests and requirements that are in addition to these product standards of the sub elements, defining modifications to the test procedures in IEC 62109 and IEC 61730, and providing guidance to apply these tests to the combination of PV module and electronics.

Call for Comment on Standards Proposals

American National Standards

This section solicits public comments on proposed draft new American National Standards, including the national adoption of ISO and IEC standards as American National Standards, and on proposals to revise, reaffirm or withdraw approval of existing American National Standards. A draft standard is listed in this section under the ANSI-accredited standards developer (ASD) that sponsors it and from whom a copy may be obtained. Comments in connection with a draft American National Standard must be submitted in writing to the ASD no later than the last day of the comment period specified herein. Such comments shall be specific to the section(s) of the standard under review and include sufficient detail so as to enable the reader to understand the commenter's position, concerns and suggested alternative language, if appropriate. Please note that the ANSI Executive Standards Council (ExSC) has determined that an ASD has the right to require that interested parties submit public review comments electronically, in accordance with the developer's procedures.

Ordering Instructions for "Call-for-Comment" Listings

1. Order from the organization indicated for the specific proposal.
2. Use the full identification in your order, including the BSR prefix; for example, Electric Fuses BSR/SAE J554.
3. Include remittance with all orders.
4. BSR proposals will not be available after the deadline of call for comment.

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. e-mail: psa@ansi.org

* Standard for consumer products

Comment Deadline: March 28, 2021

ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)

1791 Tullie Circle, NE, Atlanta, GA 30329-2305 p: (404) 636-8400 w: www.ashrae.org

Addenda

BSR/ASHRAE/ICC/IES/USGBC Addendum c to BSR/ASHRAE/ICC/IES/USGBC Standard 189.1-202x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020)

This addendum simplifies the requirements for hot-water distribution by eliminating specific instructions for calculating allowable pipe volume in Section 6.3.3.1. The exceptions to Section 6.3.3.1 were also modified to more clearly specify which situations apply.

[Click here to view these changes in full](#)

Send comments (with optional copy to psa@ansi.org) to: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

IICRC (The Institute of Inspection, Cleaning and Restoration Certification)

4043 South Eastern Avenue, Las Vegas, NV 89119 p: (702) 430-9829 w: <https://www.iicrc.org>

Revision

BSR/IICRC S100-202X, Standard for Professional Cleaning of Textile Floor Coverings (revision of ANSI/IICRC S100-2015)

This standard describes the procedures, methods, and systems to be followed when performing professional commercial and residential textile floor coverings (e.g., carpet and rugs) maintenance and cleaning.

[Click here to view these changes in full](#)

Send comments (with optional copy to psa@ansi.org) to: <https://www.iicrc.org/page/SANSIIICRCS100>

Comment Deadline: March 28, 2021

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-3817 w: www.nsf.org

Revision

BSR/NSF 4-202x (i28r4), Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment (revision of ANSI/NSF 4-2019)

Equipment covered by this Standard includes, but is not limited to, ranges, ovens, fat/oil fryers, fat/oil filters, griddles, tilting griddle skillets, broilers, steam and pressure cookers, kettles, rotisseries, toasters, coffee makers and other hot-beverage makers, component water-heating equipment, proofing boxes and cabinets, hot-food holding equipment, rethermalization equipment, and hot-food transport cabinets.

[Click here to view these changes in full](#)

Send comments (with optional copy to psa@ansi.org) to: arose@nsf.org

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-5643 w: www.nsf.org

Revision

BSR/NSF 177-202x (i9r1), Shower Filtration Systems - Aesthetic Effects (revision of ANSI/NSF 177-2019)

It is the purpose of this Standard to establish minimum performance requirements for shower filtration systems including substance reduction performance, materials safety and design, construction, and structural performance. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners.

[Click here to view these changes in full](#)

Send comments (with optional copy to psa@ansi.org) to: mleslie@nsf.org

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-5643 w: www.nsf.org

Revision

BSR/NSF/CAN 60-202x (i93r1), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF/CAN 60-2020)

This Standard establishes minimum health effects requirements for the chemicals, the chemical contaminants, and the impurities that are directly added to drinking water from drinking-water treatment chemicals. This Standard does not establish performance or taste and odor requirements for drinking-water treatment chemicals.

[Click here to view these changes in full](#)

Send comments (with optional copy to psa@ansi.org) to: mleslie@nsf.org

UL (Underwriters Laboratories)

47173 Benicia Street, Fremont, CA 94538 p: (510) 319-4269 w: <https://ul.org/>

Revision

BSR/UL 217-202x, Standard for Safety for Smoke Alarms (revision of ANSI/UL 217-2020)

Document proposes changes regarding low-frequency sound for UL 217. The proposal includes changes to the Audibility Test, Section 84, including sound output measurement, alarm duration, and supplementary remote sounding appliances.

[Click here to view these changes in full](#)

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Comment Deadline: March 28, 2021

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-1479 w: <https://ul.org/>

Revision

BSR/UL 1439-202x, Standard for Tests for Sharpness of Edges on Equipment (revision of ANSI/UL 1439-2013 (R2018))

The following is proposed: (1) Remove reference to 3M Company Type 4432 tape, and (2) Revision to test procedure in 7.2.

[Click here to view these changes in full](#)

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Comment Deadline: April 12, 2021

AISC (American Institute of Steel Construction)

130 E Randolph Street, Suite 2000, Chicago, IL 60601-6204 p: (312) 670-5410 w: www.aisc.org

New Standard

BSR/AISC 370-202x, Specification for Structural Stainless Steel Buildings (new standard)

This standard applies to the design, fabrication, and erection of austenitic and duplex stainless steel, including structural sections made from annealed sheet, strip and plate that have not been subsequently cold formed or rolled, hollow structural sections, round and square bar, annealed and cold-finished, hot-rolled, or extruded shapes. It also applies to precipitation hardening stainless steel bar.

Single copy price: \$35.00 for paper copy; electronic version is free of charge

Obtain an electronic copy from: www.aisc.org/publicreview

Order from: Rachel Jordan at jordan@aisc.org

Send comments (with optional copy to psa@ansi.org) to: Cynthia Duncan at duncan@aisc.org

APTech (ASC CGATS) (Association for Print Technologies)

1896 Preston White Drive, Reston, VA 20191 p: (703) 264-7200 w: www.printtechnologies.org

Reaffirmation

BSR/CGATS/ISO 15930-4-2004 (R202x), Graphic technology - Prepress digital data exchange using PDF - Part 4: Complete exchange of CMYK and spot colour printing data using PDF 1.4 (PDF/X-1a) (reaffirm a national adoption ANSI/CGATS/ISO 15930-4-2004 (R2018))

This part of ISO 15930 specifies the use of the Portable Document Format (PDF) Version 1.4 for the dissemination of complete digital data, in a single exchange, that contains all elements ready for final print reproduction. CMYK and spot-colour data are supported in any combination.

Single copy price: \$69.00

Obtain an electronic copy from: dorf@aptech.org

Order from: Debra Orf; dorf@aptech.org

Send comments (with optional copy to psa@ansi.org) to: Same

APTech (ASC CGATS) (Association for Print Technologies)

1896 Preston White Drive, Reston, VA 20191 p: (703) 264-7200 w: www.printtechnologies.org

Reaffirmation

BSR/CGATS/ISO 15930-6-2004 (R202x), Graphic technology - Prepress digital data exchange using PDF - Part 6: Complete exchange printing data suitable for colour-manage workflows using PDF 1.4 PDF/X-3) (reaffirmation of ANSI/CGATS/ISO 15930-6-2004 (R2018))

This part of ISO 15930 specifies the use of the Portable Document Format (PDF) Version 1.4 for the dissemination of complete digital data, in a single exchange, that contains all elements ready for final print reproduction. Color-managed, CMYK, gray, RGB or spot color data are supported.

Single copy price: \$69.00

Obtain an electronic copy from: dorf@aptech.org

Order from: Debra Orf; dorf@aptech.org

Send comments (with optional copy to psa@ansi.org) to: Same

Comment Deadline: April 12, 2021

ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)

1791 Tullie Circle NE, Atlanta, GA 30329 p: (678) 539-2114 w: www.ashrae.org

New Standard

BSR/ASHRAE Standard 15.2P-202x, Safety Standard for Refrigeration Systems in Residential Applications (new standard)

This standard specifies the minimum requirements for the safe design and installation of refrigeration systems used in residential applications. The second public review draft for this standard received over 150 comments. For this third public review draft, more than 94 of these comments have been incorporated to improve the standard, resulting in the revision of many of the standard sections.

Single copy price: \$35.00

Obtain an electronic copy from: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

Order from: standards.section@ashrae.org

Send comments (with optional copy to psa@ansi.org) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 p: (212) 591-8489 w: www.asme.org

Revision

BSR/ASME B30.20-202x, Below-the-Hook Lifting Devices (revision of ANSI/ASME B30.20-2018)

Volume B30.20 includes provisions that apply to the marking, construction, installation, inspection, testing, maintenance, and operation of below-the-hook lifting devices, used for attaching loads to a hoist. The requirements in this Volume also apply to clamps used for positioning and anchoring.

Single copy price: Free

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

Send comments (with optional copy to psa@ansi.org) to: Kathleen Peterson; peteronk@asme.org

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 p: (305) 443-9353 w: www.aws.org

New Standard

BSR/AWS G1.6-202x, Specification for the Training, Qualification, and Company Certification of Thermoplastic Welding Inspector Specialists and Thermoplastic Welding Inspector Assistants (new standard)

This specification defines the requirements and program for an employer (company) to train, qualify, and company certify Thermoplastic Welding Inspector Specialists and Thermoplastic Welding Inspector Assistants to contract or industry-specific inspector standards. The program is developed as a written practice and controlled by an employer. The qualification requires documentation of experience, training, and satisfactory completion of an examination. The examination tests knowledge of welding processes, welding procedures, welder qualification, destructive testing, nondestructive testing, terms, definitions, symbols, reports, records, safety, and responsibility as specifically applied by the contract or industry standards applicable to the employer.

Single copy price: \$32.00

Obtain an electronic copy from: steveh@aws.org

Order from: Stephen Hedrick; steveh@aws.org

Send comments (with optional copy to psa@ansi.org) to: pportela@aws.org

Comment Deadline: April 12, 2021

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 p: (305) 443-9353 w: www.aws.org

Revision

BSR/AWS B2.4-202x, Specification for Welding Procedure and Performance Qualification for Thermoplastics (revision of ANSI/AWS B2.4-2012)

This specification provides the requirements for qualification of welding procedure specifications and welders for manual, semi-automatic, mechanized, and automatic welding. The welding processes included are electrofusion, hot gas, socket fusion, butt contact fusion, infrared, extrusion welding, flow fusion welding, and solvent cement welding. Base materials, filler materials, qualification variables, and testing requirements are also included.

Single copy price: \$36.00

Obtain an electronic copy from: steveh@aws.org

Order from: Stephen Hedrick; steveh@aws.org

Send comments (with optional copy to psa@ansi.org) to: pportela@aws.org

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 p: (216) 524-4990 w: www.csagroup.org

New National Adoption

BSR/CSA HGV 4.4-202x, Gaseous hydrogen - Fuelling stations: Valves (national adoption with modifications of ISO 19880-3:2018)

The ISO Standard was developed using CSA Group seed documents, HGV 4.4, HGV 4.6, and HGV 4.7. The U.S. and Canada are adopting back the ISO International Standard with deviations necessary for safety. The Standard is an adoption with U.S. and Canadian deviations of the identically titled ISO Standard 19880-3 (first edition, 2018). This International Standard provides the requirements and test methods for safety performance of high-pressure gas valves that are used in gaseous hydrogen station of up to the H70 designation, and covers the following gas valves:

- check valve;
- excess flow valve;
- flow control valve;
- hose breakaway device;
- manual valve;
- pressure safety valve; and
- shut-off valve.

Single copy price: Free

Obtain an electronic copy from: ansi.contact@csagroup.org

Order from: David Zimmerman; ansi.contact@csagroup.org

Send comments (with optional copy to psa@ansi.org) to: Same

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 p: (703) 907-7697 w: www.cta.tech

Withdrawal

ANSI/CTA 2017-A-2010 (R2016), Common Interconnection for Portable Media Players (withdrawal of ANSI/CTA 2017-A-2010 (R2016))

Defines electrical and mechanical properties for a connector that will pass audio; high-definition video; high-speed/superspeed universal serial bus (USB); and associated metadata signals, control signals, and power between portable electronic devices and in-home and in-vehicle audio/video systems.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster; vlancaster@cta.tech

Send comments (with optional copy to psa@ansi.org) to: Same

Comment Deadline: April 12, 2021

EOS/ESD (ESD Association, Inc.)

7902 Turin Road, Building 3, Rome, NY 13440-2069 p: (315) 339-6937 w: www.esda.org

Revision

BSR/ESD STM11.11-202x, ESD Association Draft Standard Test Method for Protection of Electrostatic Discharge Susceptible Items - Surface Resistance Measurement of Planar Materials (revision of ANSI/ESD STM11.11-2015)

This standard test method defines a direct-current measurement to determine the surface resistance of planar materials, without regard to the conduction mechanism. This procedure is intended for measuring the surface resistance of materials that are $\geq 1.0 \times 10^4$ ohms and $< 1.0 \times 10^{11}$ ohms. NOTE: This test method has been shown to have a repeatability of approximately one-half order of magnitude through inter-laboratory tests.

Single copy price: \$145.00 (List)/\$115.00 (EOS/ESD Members) [Hard Cover]; \$135.00 (List)/\$105.00 (EOS/ESD Members) [Soft Cover]

Obtain an electronic copy from: cearl@esda.org

Order from: Christina Earl; cearl@esda.org

Send comments (with optional copy to psa@ansi.org) to: Same

EOS/ESD (ESD Association, Inc.)

7902 Turin Road, Building 3, Rome, NY 13440-2069 p: (315) 339-6937 w: www.esda.org

Revision

BSR/ESD STM11.12-202x, ESD Association Standard Test Method for Protection of Electrostatic Discharge Susceptible Items - Volume Resistance Measurement of Static Dissipative Planar Materials (revision of ANSI/ESD STM11.12-2015)

This standard test method defines a direct-current measurement to determine the volume resistance of a static dissipative, planar material, without regard to its conduction mechanism.

Single copy price: \$105.00 (List)/\$75.00 (EOS/ESD Members) [Hard Cover]; \$130.00 (List)/\$100.00 (EOS/ESD Members) [Soft Cover]

Obtain an electronic copy from: cearl@esda.org

Order from: Christina Earl; cearl@esda.org

Send comments (with optional copy to psa@ansi.org) to: Same

IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 p: (909) 519-0740 w: www.asse-plumbing.org

Revision

BSR/ASSE 1030-202x, Performance Requirements for Positive Pressure Reduction Devices for Sanitary Drainage Systems (revision of ANSI/ASSE 1030-2016)

Positive-pressure reduction devices are to be used in building drainage waste and vent (DWV) systems. They are intended to reduce the impact of short-duration air-pressure transients that arise in DWV networks through use. They are not intended to have any effect on long-duration or steady-state offsets in air pressure. The device consists of a variable volume reservoir contained within a ventilated rigid outer casing with an inlet connection by which the reservoir inflates when subjected to positive pressure. In its inactive state, the flexible reservoir is deflated. Expansion only occurs in response to an increase in line pressure at the entrance to the device.

Single copy price: Free

Obtain an electronic copy from: terry.burger@asse-plumbing.org

Send comments (with optional copy to psa@ansi.org) to: terry.burger@asse-plumbing.org

Comment Deadline: April 12, 2021

NECA (National Electrical Contractors Association)

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 p: (202) 991-6252 w: www.neca-neis.org

Revision

BSR/NECA 411-202X, Installing and Maintaining Uninterruptible Power Supplies (revision of ANSI/NECA 411-2014)

This standard describes installation and maintenance procedures for permanently installed, static, three-phase Uninterruptible Power Supplies (UPSs) rated 30 kVA or more and rated 600 Volts or less, and related battery systems installed indoors or outdoors for commercial and industrial applications.

Single copy price: \$25.00 (NECA Members), \$55.00 (Non-members)

Obtain an electronic copy from: neis@necanet.org

Order from: Aga Golriz; Aga.golriz@necanet.org

Send comments (with optional copy to psa@ansi.org) to: Same

NEMA (ASC C136) (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 p: (703) 841-3234 w: www.nema.org

Revision

BSR C136.41-202x, Standard for Roadway and Area Lighting Equipment - Dimming Control between an External Locking-Type Photocontrol and Ballast or Driver (revision of ANSI C136.41-2013)

This standard describes methods of light-level control between an external locking-type photocontrol (or similar device) and a dimmable ballast or driver for street- and area-lighting equipment. Mechanical, electrical, and marking requirements are established for dimming, locking-type photocontrols, and mating receptacles. All requirements of ANSI C136.10-2010 for photocontrols and receptacles shall apply except where specifically superseded by this standard.

Single copy price: \$63.00

Obtain an electronic copy from: David.Richmond@nema.org

Order from: David Richmond; David.Richmond@nema.org

Send comments (with optional copy to psa@ansi.org) to: Same

NEMA (ASC C82) (National Electrical Manufacturers Association)

1300 N 17th St, Rosslyn, VA 22209 p: (703) 841-3262 w: www.nema.org

New Standard

BSR C82.15-202X, LED Drivers Robustness (new standard)

This standard describes testing methods used to evaluate LED drivers' robustness (ability to withstand specific stress described) and defines a minimum level of robustness. It includes LED drivers that operate from supply sources up to 600V and 60 Hz or DC applications.

Single copy price: \$100.00

Obtain an electronic copy from: michael.erbesfeld@nema.org

Order from: Michael Erbesfeld; Michael.Erbesfeld@nema.org

Send comments (with optional copy to psa@ansi.org) to: Same

Comment Deadline: April 12, 2021

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 p: (703) 841 3290 w: www.nema.org

New Standard

BSR/NEMA ESM1-1-202x, Electrical Submeter - General Requirements (new standard)

The requirements of this Standard cover metrological requirements and associated testing for electrical energy submeters. The Standard applies to stand-alone meters with Standard inputs or metering systems comprising meters and associated sensors. These meters provide details of energy use for energy monitoring or revenue submetering. The Standard does not apply to primary-utility-owned meters. The Standard includes AC and DC kilowatt-hour meters, demand meters, load-survey meters, and power-quality meters, single- and four-quadrant meters, etc. The Standard applies to indoor and outdoor applications and covers portable, permanently installed, and embedded meters. The Standard covers AC meters rated at not more than 1000 V that measure active energy, apparent energy, reactive energy (capacitive, inductive, and/or total) including received, delivered, and/or net and also those measuring current, voltage, active power, apparent power, reactive power (capacitive, inductive and/or total), power factor, phase angle, polarity, and frequency when measured in addition to energy. The Standard also applies to DC meters rated not more than 1500 V that measure energy received, delivered, and/or net and also those that include additional measurements of power, current, and voltage.

Single copy price: \$Draft standard free of charge

Obtain an electronic copy from: and_moldoveanu@nema.org

Order from: Andrei Moldoveanu; and_moldoveanu@nema.org

Send comments (with optional copy to psa@ansi.org) to: Same

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201 p: (703) 907-7706 w: www.tiaonline.org

Addenda

BSR/TIA 607-D-1-202x, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises - Addendum 1: Harmonization with ANSI/TIA 222 (addenda to ANSI/TIA 607-D-2019)

This addendum to ANSI/TIA 607-D, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises, is to capture changes that will harmonize information, including but not limited to Annex D, Towers and Antennas, with ANSI/TIA 222, Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures, when appropriate.

Single copy price: \$61.00

Obtain an electronic copy from: TIA (standards-process@tiaonline.org)

Order from: TIA (standards-process@tiaonline.org)

Send comments (with optional copy to psa@ansi.org) to: Same

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201 p: (703) 907-7706 w: www.tiaonline.org

Addenda

BSR/TIA 5048-1-202x, Automated infrastructure management (AIM) systems Requirements, data exchange and applications - Addendum 1: Adoption of ISO/IEC 18598 AMD1 ED1 (addenda to ANSI/TIA 5048-2017)

This International Standard specifies the requirements and recommendations for the attributes of automated infrastructure management (AIM) systems. It explains how AIM systems can contribute to operational efficiency and deliver benefits. It also specifies a framework of requirements and recommendations for data exchange with other systems.

Single copy price: \$65.00

Obtain an electronic copy from: TIA (standards-process@tiaonline.org)

Order from: TIA (standards-process@tiaonline.org)

Send comments (with optional copy to psa@ansi.org) to: Same

Comment Deadline: April 12, 2021

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201 p: (703) 907-7706 w: www.tiaonline.org

Revision

BSR/TIA 606-D-202x, Administration Standard for Telecommunications Infrastructure (revision and redesignation of ANSI/TIA 606-C-2017)

This Standard specifies administration systems for telecommunications infrastructure within buildings (including commercial, industrial, residential, and data center premises) and between buildings. This infrastructure may range in size from a building requiring a single telecommunications space (TS) and associated elements, to many TSs and associated elements in multiple campus locations. This Standard applies to administration of telecommunications infrastructure in existing, renovated, and new buildings.

Single copy price: \$200.00

Obtain an electronic copy from: TIA (standards-process@tiaonline.org)

Order from: TIA (standards-process@tiaonline.org)

Send comments (with optional copy to psa@ansi.org) to: Same

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201 p: (703) 907-7706 w: www.tiaonline.org

Revision

BSR/TIA 862-C-202x, Structured Cabling Infrastructure Standard for Intelligent Building Systems (revision and redesignation of ANSI/TIA 862-B-1-2017)

This Standard specifies requirements for intelligent building system cabling infrastructure including cabling topology, architecture, design and installation practices, test procedures, and components. The cabling infrastructure specified by this Standard is intended to support a wide range of systems, particularly those that utilize or can utilize IP-based infrastructure. This revision will include the contents of Addendum 1 to ANSI/TIA 862-B; modifications needed due to the recent revision of ANSI/TIA 568.0; and the inclusion of single-pair cabling as specified in ANSI/TIA 568.5.

Single copy price: \$116.00

Obtain an electronic copy from: TIA (standards-process@tiaonline.org)

Order from: TIA (standards-process@tiaonline.org)

Send comments (with optional copy to psa@ansi.org) to: Same

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 p: (847) 664-2850 w: <https://ul.org/>

Revision

BSR/UL 2255-202x, Standard for Safety for Receptacle Closures (revision of ANSI/UL 2255-2012 (R2016))

This is the proposed new third edition of the Standard for Receptacle Closures, UL 2255.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-1392 w: <https://ul.org/>

Revision

BSR/UL 4248-5-202X, Standard for Safety for Fuseholders - Part 5: Class G (revision of ANSI/UL 4248-5-2007 (R2018))

This is the proposed second edition of the Standard for Fuseholders - Part 5: Class G, UL 4248-5.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Comment Deadline: April 12, 2021

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 p: (847) 664-2023 w: <https://ul.org/>

Revision

BSR/UL 7001-202x, Standard for Sustainability for Household Refrigeration Appliances (revision of ANSI/UL 7001-2014)

This proposal for UL 7001 covers: (1) Proposed third edition of UL 7001.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Comment Deadline: April 27, 2021

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 p: (212) 591-8489 w: www.asme.org

Revision

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

BSR/ASME A112.4.2/CSA B45.16-202x, Personal Hygiene Devices for Water Closets (revision of ANSI/ASME A112.4.2/CSA B45.16-2015 (R2020))

This Standard covers personal hygiene devices for water closets and specifies requirements for materials, construction, performance, testing, and markings.

Single copy price: Free

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (with optional copy to psa@ansi.org) to: Angel L. Guzman Rodriguez, guzman@asme.org

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 p: (216) 524-4990 w: www.csagroup.org

Reaffirmation

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

BSR/CAN/CSA ISO 12617-2016 (R202x), Road vehicles - Liquefied natural gas (LNG) refuelling connector - 3,1 MPa connector (reaffirm a national adoption ANSI/CSA 12617-2016)

The standard specifies liquefied natural gas (LNG) refueling nozzles and receptacles constructed entirely of new and unused parts and materials for road vehicles powered by LNG. An LNG refueling connector consists of, as applicable, the receptacle and its protective cap (mounted on the vehicle) and nozzle.

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Send comments (with optional copy to psa@ansi.org) to: david.zimmerman@csagroup.org

Technical Reports Registered with ANSI

Technical Reports Registered with ANSI are not consensus documents. Rather, all material contained in Technical Reports Registered with ANSI is informational in nature. Technical reports may include, for example, reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, or information on the "state of the art" in relation to standards of national or international bodies on a particular subject. Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI. Please submit any comments regarding this registration to the organization indicated, with a copy to the PSA Center, American National Standards Institute, 25 West 43rd Street, New York, NY 10036 or E-Mail to psa@ansi.org.

ITI (INCITS) (InterNational Committee for Information Technology Standards)

700 K Street NW, Suite 600, Washington, DC 20001 p: (202) 737-8888 w: www.incits.org

New Technical Report

INCITS/ISO/IEC TR 30148:2019 [2021], Internet Of Things (IoT) - Technical Requirements and Application of Sensor Network for Wireless Gas Meters (technical report)

This document describes: the structure of wireless gas meter networks and the application protocol of wireless gas meter networks.

Project Withdrawn

In accordance with clause 4.2.1.3.3 Discontinuance of a standards project of the ANSI Essential Requirements, an accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Suite 300, Arlington, VA 22203 p: (703) 253-8284 w: www.aami.org

BSR/AAMI/ISO 15883-4-202x, Washer-disinfectors - Part 4: Requirements and tests for washer-disinfectors employing chemical disinfection for thermolabile endoscopes (identical national adoption of ISO 15883-4:2018)

Inquiries may be directed to Amanda Benedict; abenedict@aami.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 2.5.1 IG SIFLAB, R1-202x, HL7 Version 2.5.1 Implementation Guide: S&I Framework Lab Results Interface, Release 1 - US Realm (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 CDA2 IGPROGNOTE, R1-202x, HL7 Implementation Guide for CDA Release 2: Progress Note, Release 1 - US Realm (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 CDAR2 IG GENTESTROT, R1-202x, HL7 Implementation Guide for CDA Release 2: Genetic Testing Reports, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

Project Withdrawn

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 CDAR2 IG PROCNOTE, R1-202x, HL7 Implementation Guide for Clinical Document Architecture, Release 2: Procedure Note, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 CDAR2 QRDA, R1-200x, HL7 Standard for CDA Release 2: Quality Reporting Document Architecture, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

In accordance with clause 4.2.1.3.3 Discontinuance of a standards project of the ANSI Essential Requirements, an accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 CPM CMET, R5-202x, HL7 Version 3 Standard: Common Product Model CMETs, Release 5 (revision and redesignation of ANSI/HL7 V3 CPM CMET, R4-2018)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 EHR RMESFP, R2-202x, HL7 EHR System Records Management and Evidentiary Support Functional Profile, Release 2 (revision of ANSI/HL7 EHR RMESFP R1-2010)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 MHAFF, R1-202x, HL7 Consumer Mobile Health Application, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V251IG SIF LABORDER, R1-202x, HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Orders from EHR, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V3 BRIDG, R2-202x, HL7 Version 3 Standard: Biomedical Research Integrated Domain, Release 2 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

Project Withdrawn

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V3 BTODON, R1-200x, HL7 Version 3 Standard: Blood, Tissue, Organ; Donation, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V3 DAMSEC, R1-202x, HL7 Version 3 Standard: Domain Analysis Model; Security, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V3IG SNOMED, R1-200x, HL7 Version 3 Implementation Guide: Using SNOMED CT, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V3ORD DIETNUT, R1-202x, HL7 Version 3 Standard: Orders; Diet and Nutrition, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V3 PASS SECURITY LABELSRV, R2-202x, HL7 Version 3 Standard: Privacy, Access and Security Services; Security Labeling Service, Release 2 (revision of ANSI/HL7 V3 PASS SECURITY LABELSRV, R1-2014)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V3SAIF LABORD, R1-202x, HL7 Version 3 SAIF Conceptual Specification: Laboratory Orders, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7 V3 XMLITSRIMSR, R1-202x, HL7 Version 3 Standard: XML Implementation Technology Specification for RIM Serialization, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

BSR/HL7IG CDS KNART, R1-202x, HL7 Implementation Guide: Clinical Decision Support Knowledge Artifact Implementations, Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

Withdrawal of an ANS by ANSI-Accredited Standards Developer

In accordance with clause 4.2.1.3.2 Withdrawal by ANSI-Accredited Standards Developer of the ANSI Essential Requirements, the following American National Standards have been withdrawn as an ANS.

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 p: (313) 550-2073 104 w: www.hl7.org

ANSI/HL7 V3ITSHDATA RF, R1-2014, HL7 Version 3 Standard: hData Record Format, Release 1

Questions may be directed to: Karen Van Hentenryck; Karenvan@HL7.org

Final Actions on American National Standards

The standards actions listed below have been approved by the ANSI Board of Standards Review (BSR) or by an ANSI-Audited Designator, as applicable.

ANS (American Nuclear Society)

555 North Kensington Avenue, La Grange Park, IL 60526 p: (708) 579-8268 w: www.ans.org

Reaffirmation

ANSI/ANS 40.37-2009 (R2021), Mobile Low-Level Radioactive Waste Processing Systems (reaffirmation of ANSI/ANS 40.37-2009 (R2016)) Final Action Date: 2/22/2021

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 p: (212) 591-8489 w: www.asme.org

New Standard

ANSI/ASME BPVC Section XIII-2021, Rules for Overpressure Protection (new standard) Final Action Date: 2/22/2021

ASQ (American Society for Quality)

600 N Plankinton Avenue, Milwaukee, WI 53203 p: (414) 272-8575 w: www.asq.org

New Standard

ANSI/ASQ G1-2021, Guidelines for Evaluating the Quality of Government Operations and Services (new standard) Final Action Date: 2/22/2021

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 p: (305) 443-9353 334 w: www.aws.org

Supplement

ANSI/AWS D1.6/D1.6M-2021-AMD1, Structural Welding Code - Stainless Steel (supplement to ANSI/AWS D1.6/D1.6M-2017) Final Action Date: 2/22/2021

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-3817 w: www.nsf.org

Revision

ANSI/NSF 6-2021 (i16r1), Dispensing Freezers (revision of ANSI/NSF 6-2018) Final Action Date: 2/19/2021

Revision

ANSI/NSF 55-2021 (i52r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2019) Final Action Date: 2/18/2021

Revision

ANSI/NSF 55-2021 (i54r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2019) Final Action Date: 2/18/2021

Revision

ANSI/NSF 455-3-2021 (i24r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2019) Final Action Date: 2/16/2021

PDA (Parenteral Drug Association)

Bethesda Towers, 4350 East-West Highway, Suite 600, Bethesda, MD 20814 p: (301) 656-5900 Ext 106 w: www.pda

New Standard

ANSI/PDA Standard 04-2021, Phage Retention Nomenclature Rating for Small and Large Virus-Retentive Filters (new standard) Final Action Date: 1/28/2021

PMI (Project Management Institute)

14 Campus Blvd, Newtown Square, PA 19073-3299 p: (313) 404-3507 w: www.pmi.org

Revision

ANSI/PMI 99-001-2021, The Standard for Project Management (revision of ANSI/PMI 99-001-2017) Final Action Date: 2/16/2021

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-0973 w: <https://ul.org/>

New National Adoption

ANSI/UL 12402-9-2021, Standard for Personal Flotation Devices - Part 9: Test Methods (identical national adoption of ISO 12402-9 and revision of ANSI/UL 12402-9-2015) Final Action Date: 2/11/2021

New National Adoption

ANSI/UL 61010-2-040-2021, Standard for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-040: Particular Requirements for Sterilizers and Washer-Disinfectors Used to Treat Medical Materials (identical national adoption of IEC 61010-2-040 and revision of ANSI/UL 61010-2-040-2016) Final Action Date: 2/17/2021

New National Adoption

ANSI/UL 61496-1-2021, Standard for Safety for Electro-Sensitive Protective Equipment - Part 1: General Requirements and Tests (national adoption of IEC 61496-1 with modifications and revision of ANSI/UL 61496-1-2001 (R2011)) Final Action Date: 2/9/2021

New National Adoption

ANSI/UL 61496-2-2021, Standard for Safety of Machinery - Electro-Sensitive Protective Equipment - Part 2: Particular Requirements for Equipment Using Active Opto-Electronic Protective Devices (AOPDs) (national adoption of IEC 61496-2 with modifications and revision of ANSI/UL 61496-2-2001 (R2011)) Final Action Date: 2/9/2021

New Standard

ANSI/UL 62841-3-7-2021, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-7: Particular Requirements for Transportable Wall Saws (new standard) Final Action Date: 2/18/2021

Reaffirmation

ANSI/UL 193-2016 (R2021), Standard for Alarm Valves for Fire-Protection Service (reaffirmation of ANSI/UL 193-2016) Final Action Date: 2/16/2021

Revision

ANSI/UL 48-2021, Standard for Safety for Electric Signs (revision of ANSI/UL 48-2018) Final Action Date: 2/19/2021

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-0973 w: <https://ul.org/>

Revision

ANSI/UL 710-2021, Standard for Exhaust Hoods for Commercial Cooking Equipment (revision of ANSI/UL 710-2019) Final Action Date: 2/16/2021

Revision

ANSI/UL 1076-2021, Standard for Safety for Proprietary Burglar Alarm Units and Systems (revision of ANSI/UL 1076-2018) Final Action Date: 2/16/2021

Call for Members (ANS Consensus Bodies)

Directly and materially affected parties who are interested in participating as a member of an ANS consensus body for the standards listed below are requested to contact the sponsoring standards developer directly and in a timely manner.

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 p: (703) 293-4887 w: www.ahrinet.org
Karl Best; kbest@ahrinet.org

BSR/AHRI Standard 600 (I-P)-202x, Calculation of Integrated Energy Efficiency Ratio (IEER) and Simultaneous Heating and Cooling Efficiency (SCHE) for Water-Source Heat Pumps (new standard)

BSR/AHRI Standard 601 (SI)-202x, Calculation of Integrated Energy Efficiency Ratio (IEER) and Simultaneous Heating and Cooling Efficiency (SCHE) for Water-Source Heat Pumps (new standard)

AIA (Aerospace Industries Association)

1000 Wilson Boulevard, Suite 1700, Arlington, VA 22209 p: (703) 358-1052 w: www.aia-aerospace.org
Christopher Carnahan; chris.carnahan@aia-aerospace.org

BSR/AIA NAS9947-202x, Organization Designation Authorization (ODA) Standard (new standard)

AISC (American Institute of Steel Construction)

130 E Randolph Street, Suite 2000, Chicago, IL 60601-6204 p: (312) 670-5410 w: www.aisc.org
Cynthia Duncan; duncan@aisc.org

BSR/AISC 370-202x, Specification for Structural Stainless Steel Buildings (new standard)

API (American Petroleum Institute)

200 Massachusetts Avenue NW, Washington, DC 20001 p: (202) 682-8286 w: www.api.org
Jacqueline Roueche; RouecheJ@api.org

BSR/API Spec 10D/ISO 10427-1-2010 (R202x), Specification for Bow-Spring Casing Centralizers (reaffirm a national adoption ANSI/API Spec 10D/ISO 10427-1-2010 (R2015))

API (American Petroleum Institute)

200 Massachusetts Avenue NW, Washington, DC 20001 p: (202) 682-8130 w: www.api.org
Sally Goodson; goodsons@api.org

BSR/API MPMS Ch. 21.1-2011 (R202x), Flow Measurement Using Electronic Metering Systems - Electronic Gas Measurement (reaffirmation of ANSI/API MPMS Ch. 21.1-2011)

ASQ (ASC Z1) (American Society for Quality)

600 N Plankinton Avenue, Milwaukee, WI 53203 p: (800) 248-1946 w: www.asq.org
Julie Sharp; standards@asq.org

BSR/ASQ/TS 54001-202x, Quality management systems - Particular requirements for the application of ISO 9001:2015 for electoral organizations at all levels of government (identical national adoption of ISO/TS 54001:2019)

ASSP (ASC A10) (American Society of Safety Professionals)

520 N. Northwest Highway, Park Ridge, IL 60068 p: (847) 768-3411 w: www.assp.org
Tim Fisher; TFisher@ASSP.org

BSR/ASSP A10.8-202x, Scaffolding Safety Requirements (revision of ANSI/ASSP A10.8-2019)

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 p: (216) 524-4990 w: www.csagroup.org
David Zimmerman; ansi.contact@csagroup.org

BSR/CSA NGV 4.6-202x, Manually operated valves for natural gas dispensing systems (revision of ANSI/CSA NGV 4.6-2020)

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 p: (703) 907-7697 w: www.cta.tech
Veronica Lancaster; vlancaster@cta.tech

ANSI/CTA 2017-A-2010 (R2016), Common Interconnection for Portable Media Players (withdrawal of ANSI/CTA 2017-A-2010 (R2016))

CTA is seeking new members to join the consensus body. CTA and the R6 Intelligent Mobility Committee are particularly interested in adding new members (called "users" who acquire health & fitness products from those who create them) as well as those with a general interest.

BSR/CTA 861.6-202x, Improvements on Audio and Video Signaling (addenda to ANSI/CTA 861-H-2021)

BSR/CTA 2037-C-202x, Determination of Television Set Power Consumption (revision and redesignation of ANSI/CTA 2037-B-2018)

CTA is seeking new members to join the consensus body. CTA and the R4 Video Systems Intelligent Mobility Committee are particularly interested in adding new members (called "users" who acquire video products from those who create them) as well as those with a general interest.

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 p: (571) 323-0294 w: www.ecianow.org
Laura Donohoe; ldonohoe@ecianow.org

BSR/EIA 364-122-202x, Safety Holes Test Procedure for Electrical Connectors (new standard)

EOS/ESD (ESD Association, Inc.)

7902 Turin Road, Building 3, Rome, NY 13440-2069 p: (315) 339-6937 w: www.esda.org
Lauren Roosevelt; laurenradmin@esda.org

BSR/ESD STM11.11-202x, ESD Association Draft Standard Test Method for Protection of Electrostatic Discharge Susceptible Items - Surface Resistance Measurement of Planar Materials (revision of ANSI/ESD STM11.11-2015)

FM (FM Approvals)

1151 Boston-Providence Turnpike, Norwood, MA 02062 p: (781) 255-4813 w: www.fmglobal.com
Josephine Mahnken; josephine.mahnken@fmapprovals.com

BSR/FM 1616-202x, Underground Pipe Rehabilitation Systems (new standard)

MHI (Material Handling Industry)

8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217 p: (704) 714-8755 w: www.mhi.org
Patrick Davison; pdavison@mhi.org

BSR MH27.1-202X, Patented Track Underhung Cranes and Monorail Systems (revision of ANSI MH27.1-2016)

BSR MH27.2-202X, Enclosed Track Underhung Cranes and Monorail Systems (revision of ANSI MH27.2-2017)

NECA (National Electrical Contractors Association)

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 p: (202) 991-6252 w: www.neca-neis.org
Aga Golriz; Aga.golriz@necanet.org

BSR/NECA 411-202X, Installing and Maintaining Uninterruptible Power Supplies (revision of ANSI/NECA 411-2014)

NEMA (ASC C136) (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 p: (703) 841-3234 w: www.nema.org
David Richmond; David.Richmond@nema.org

BSR C136.41-202x, Standard for Roadway and Area Lighting Equipment - Dimming Control between an External Locking-Type Photocontrol and Ballast or Driver (revision of ANSI C136.41-2013)

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Rosslyn, VA 22209 p: (703) 841-3278 w: www.nema.org
Khaled Masri; Khaled.Masri@nema.org

BSR/NEMA LI 1-202x, Industrial Laminating Thermosetting Products (new standard)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-3817 w: www.nsf.org
Allan Rose; arose@nsf.org

BSR/NSF 4-202x (i21r7), Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment (revision of ANSI/NSF 4-2019)

BSR/NSF 4-202x (i28r4), Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment (revision of ANSI/NSF 4-2019)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-5643 w: www.nsf.org
Monica Leslie; mleslie@nsf.org

BSR/NSF 177-202x (i9r1), Shower Filtration Systems - Aesthetic Effects (revision of ANSI/NSF 177-2019)

BSR/NSF/CAN 60-202x (i93r1), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF/CAN 60-2020)

BSR/NSF/CAN 60-202x (i94r1), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF/CAN 60-2020)

BSR/NSF/CAN 600-202x (i5r1), Health Effects Evaluation and Criteria for Chemicals in Drinking Water (revision of ANSI/NSF/CAN 600-2019)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-6866 w: www.nsf.org
Rachel Brooker; rbrooker@nsf.org

BSR/NSF 455-2-202x (i10), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2020)

TAPPI (Technical Association of the Pulp and Paper Industry)

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 p: (770) 209-7249 w: www.tappi.org
Brittaney Lovett; standards@tappi.org

BSR/TAPPI T 581 om-202x, Dry tensile properties of paper towel and tissue products (using constant rate of elongation apparatus) (new standard)

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201 p: (703) 907-7706 w: www.tiaonline.org
Teesha Jenkins; standards-process@tiaonline.org

BSR/TIA 606-D-202x, Administration Standard for Telecommunications Infrastructure (revision and redesignation of ANSI/TIA 606-C-2017)

BSR/TIA 607-D-1-202x, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises - Addendum 1: Harmonization with ANSI/TIA 222 (addenda to ANSI/TIA 607-D-2019)

BSR/TIA 862-C-202x, Structured Cabling Infrastructure Standard for Intelligent Building Systems (revision and redesignation of ANSI/TIA 862-B-1-2017)

BSR/TIA 5048-1-202x, Automated infrastructure management (AIM) systems - Requirements, data exchange and applications - Addendum 1: Adoption of ISO/IEC 18598 AMD1 ED1 (addenda to ANSI/TIA 5048-2017)

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 316-5147 w: <https://ul.org/>
Kelly Smoke; kelly.smoke@ul.org

BSR/UL 283-202x, Standard for Safety for Air Fresheners and Deodorizers (revision of ANSI/UL 283-2016)

BSR/UL 430-202x, Standard for Safety for Waste Disposers (revision of ANSI/UL 430-2018)

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (613) 368-4432 w: <https://ul.org/>
Wathma Jayathilake; Wathma.Jayathilake@ul.org

BSR/UL 1023-202x, Household Burglar-Alarm System Units (revision of ANSI/UL 1023-2017)

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 p: (602) 281-4497 w: www.vita.com
Jing Kwok; jing.kwok@vita.com

BSR/VITA 66.4-2016 (R202x), Optical Interconnect on VPX - Half-Width MT Variant (reaffirmation of ANSI/VITA 66.4-2016)

BSR/VITA 76-2016 (R202x), High Performance Cable Standard - Ruggedized 10 Gbaud Bulkhead Connector for Cu and AOC Cables (reaffirmation of ANSI/VITA 76-2016)

BSR/VITA 88.0-202x, XMC+ Switched Mezzanine Card Auxiliary Standard (new standard)

Call for Members (ANS Consensus Bodies)

Directly and materially affected parties who are interested in participating as a member of an ANS consensus body for the standards listed below are requested to contact the sponsoring standards developer directly and in a timely manner

ANSI Accredited Standards Developer

AAMI (Association for the Advancement of Medical Instrumentation)

AAMI (www.aami.org) is actively seeking participation in the following standards development work and in the interest categories specified:

BSR/AAMI/ISO 5840-1-202x, Cardiovascular implants - Cardiac valve prostheses - Part 1: General requirements (identical national adoption of ISO 5840-1:2020 and revision of ANSI/AAMI/ISO 5840-1-2015).

US adoption of AAMI/ISO 5840-1-202x, Cardiovascular implants - Cardiac valve prostheses - Part 1: General requirements. Applicable to heart valve substitutes intended for implantation and provides general requirements. Subsequent parts of the ISO 5840 series provide specific requirements. Applicable to newly developed and modified heart valve substitutes and to the accessory devices, packaging, and labelling required for their implantation and for determining the appropriate size of the heart valve substitute to be implanted. Seeking industry, user, regulator and general interest participation.

BSR/AAMI/ISO 5840-2-202x, Cardiovascular implants - Cardiac valve prostheses - Part 2: Surgically implanted heart valve substitutes (identical national adoption of ISO 5840-2:2020 and revision of ANSI/AAMI/ISO 5840-2-2015).

US adoption of AAMI/ISO 5840-2-202x, Cardiovascular implants - Cardiac valve prostheses - Part 2: Surgically implanted heart valve substitutes. Applicable to heart valve substitutes intended for implantation in human hearts, generally requiring cardiopulmonary bypass and generally with direct visualization. Applicable to both newly developed and modified surgical heart valve substitutes and to the accessory devices, packaging, and labelling required for their implantation and for determining the appropriate size of the surgical heart valve substitute to be implanted. Seeking industry, user, regulator and general interest participation.

BSR/AAMI/ISO 5840-3-202x, Cardiovascular implants - Cardiac valve prostheses - Part 3: Heart valve substitutes implanted by transcatheter techniques (national adoption of ISO 5840-3:2020 with modifications and revision of ANSI/AAMI/ISO 5840-3-2012).

US adoption of AAMI/ISO 5840-3-202x, Cardiovascular implants - Cardiac valve prostheses - Part 3: Heart valve substitutes implanted by transcatheter techniques. Applicable to all devices intended for implantation as a transcatheter heart valve substitute. Applicable to transcatheter heart valve substitutes and to the accessory devices, packaging and labelling required for their implantation and for determining the appropriate size of heart valve substitute to be implanted. Seeking industry, user, regulator and general interest participation.

BSR/AAMI/ISO 25539-2-202x, Cardiovascular implants - Endovascular devices - Part 2: Vascular stents (identical national adoption of ISO 25539-2:2020, Cardiovascular implants - Endovascular devices - Part 2: Vascular stents, and revision of ANSI/AAMI/ISO 25539-2-2012).

US adoption of AAMI/ISO 25539-2-202x, Cardiovascular implants - Endovascular devices - Part 2: Vascular stents. Specifies requirements for the evaluation of stent systems (vascular stents and delivery systems) and requirements with respect to nomenclature, design attributes and information supplied by the manufacturer, based upon current medical knowledge. Guidance for the development of in vitro test methods is included. Seeking industry, user, regulator and general interest participation.

Call for Members (ANS Consensus Bodies)

ANSI Accredited Standards Developer

INCITS Executive Board – ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum of choice for information technology developers, producers and users for the creation and maintenance of formal de jure IT standards. INCITS' mission is to promote the effective use of Information and Communication Technology through standardization in a way that balances the interests of all stakeholders and increases the global competitiveness of the member organizations.

The INCITS Executive Board serves as the consensus body with oversight of its 40+ Technical Committees. Additionally, the INCITS Executive Board has the international leadership role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit <http://www.incits.org/participation/membership-info> for more information.

Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following categories:

- Service Providers
- Users
- Standards Development Organizations and Consortia
- Academic Institutions

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.

SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities. Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

Provisional American National Standard (ANS)

Public Notice of the Development of a Provisional Amendment

PHTA (Pool and Hot Tub Alliance)

APSP/ICC-16 (PA) impacts ANSI/APSP/ICC-16 2017 American National Standard for Suction Outlet Fitting Assemblies (SOFA) for Use in Pools, Spas and Hot Tubs safety standard which is part of the Virginia Graeme Baker Pool and Spa Safety Act

In accordance with Annex B: Procedures for the Development of a Provisional American National Standard (ANS) or a Provisional Amendment to an ANS of the ANSI Essential Requirements, PHTA is preparing a Provisional Amendment to address the unique circumstances involving the distribution of storable pool integral Suction Outlet Fitting Assemblies (SOFAs) not addressed in the [ANSI/APSP/ICC-16 2017 American National Standard for Suction Outlet Fitting Assemblies \(SOFA\) for Use in Pools, Spas and Hot Tubs](#) safety standard. A suction outlet fitting assemblies testing issue exists for packaged aboveground/onground storable pool sets relating to ANSI/APSP/ICC-16 2017.

A rule issued by the United States Consumer Product Safety Commission (CPSC) on August 18, 2020, states that drain covers manufactured on or after May 24, 2021, must comply with ANSI/APSP/ICC-16 2017 to provide minimum guidelines for testing, product-marking requirements, installation and maintenance instructions.

ADD New Section 1.2.7

1.2.7 Storable Pool Integral SOFA – A Storable Pool is constructed on or above the ground; capable of holding water; with flexible/nonrigid walls that achieve their structural integrity by means of uniform shape, support frame or a combination thereof; and can be disassembled for storage or relocation. A Storable Pool is supplied as a kit by the manufacturer and includes a storable pool pump, piping, and installed Integral SOFA intended only for the pool kit.

Revise Section 5.6

5.6 Self-Contained Spa SOFA or Storable Pool Integral SOFA Mounting Surface, Test Position, and Piping

Revise Section 5.6.1

5.6.1 Test assembly. Self-contained spa SOFAs or **Storable Pool Integral SOFA** shall be installed in pairs on the SOFA mounting surface using 14 ft. ± 1 ft. (4267 mm ± 305 mm) of flexible PVC hose in accordance with Figure 14.

Update Figure 14: Self-contained spa SOFA or **Storable Pool Integral SOFA**

Revise Section 5.6.2

5.6.2 Multiple pipe sizes. When more than one size of hose/pipe is specified by the self-contained spa or **Storable Pool Integral SOFA** manufacturer's product specifications or installation instructions, each size of hose shall be tested.

(Continued on next page...)

Provisional American National Standard (ANS)

Public Notice of the Development of a Provisional Amendment

PHTA (Pool and Hot Tub Alliance)

(Continued from previous page...)

ADD New Section 8.1.4

8.1.4 Storable Pool Integral SOFA. This type of cover/grate shall be marked with “For Use in Storable Pool Only”.

ADD New Section 8.6 & 8.6.1

8.6 Equivalent Markings for Storable Pool Integral SOFA

8.6.1 Equivalent Markings for Storable Pool Integral SOFA

The certification agency that certifies the Storable Pool Integral SOFA shall apply the applicable markings to the SOFA in conformance with

Sections 8.1 through 8.3 only.

Revise Section 9.8.1

9.8.1 Required tag or label. **Excluding Storable Pool Integral SOFA products**, each manufactured cover/ grate shall include a removal tag or affixed label stating the following:

Once the Provisional Amendment is approved, the appropriate sections of the [American National Standard for Suction Outlet Fitting Assemblies \(SOFA\) for Use in Pools, Spas and Hot Tubs](#) will be updated and the standard will be identified as ANSI/APSP/ICC-16 (PA). PHTA agrees to comply with all of the requirements in Annex B of the ANSI Essential Requirements related to a Provisional Amendment.

This Provisional Amendment is intended to ensure the prompt dissemination of safety criteria. Following approval, copies of the Provisional Amendment, may be obtained from:

PHTA - Pool and Hot Tub Alliance

Susan Hilaski

Director, Standards Promotion & Adoption

2111 Eisenhower Avenue, Suite 500

Alexandria, VA 22314

p: (703) 838-0083 Ext. 150

e: shilaski@phta.org

Contact the PHTA Standards Department at standards@phta.org or Susan J. Hilaski.

Accreditation Announcements (Standards Developers)

Approval of Reaccreditation – ASD

3-A (3-A Sanitary Standards, Inc.)

Effective February 24, 2021

ANSI's Executive Standards Council has approved the reaccreditation of 3-A Sanitary Standards, Inc. (3-A), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on 3-A-sponsored American National Standards, effective February 24, 2021. For additional information, please contact: Mr. Timothy R. Rugh, CAE, Executive Director, 3-A Sanitary Standards, Inc., 6888 Elm Street, Suite 2D, McLean, VA 22101-3829; phone: 703.790.0295; email: trugh@3-A.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

ASSP - American Society of Safety Professionals

Z16 Committee Virtual Meeting on April 21-22, 2021

The American Society of Safety Professionals (ASSP) is the secretariat for Z16 Committee for Safety and Health Metrics and Performance Measures. The next Z16 meeting will take place virtually on April 21-22, 2021. Those interested in participating can contact ASSP for additional information at LBauerschmidt@assp.org.

ANSI Accredited Standards Developer

ASSP - American Society of Safety Professionals

Z359 Committee Virtual Meeting on April 27-29, 2021

The American Society of Safety Professionals (ASSP) is the secretariat for Z359 Committee for Fall Arrest / Fall Protection. The next Z359 meeting will take place virtually on April 27-29, 2021. Those interested in participating can contact ASSP for additional information at LBauerschmidt@assp.org

ANSI Accredited Standards Developer

CSA - CSA America Standards Inc.

WebEx Meeting on Thursday, April 22, 2021

CSA Group will hold the Natural Gas Transportation Technical Committee meeting by WebEx on Thursday, April 22, 2021 from 1 pm to 3 pm Eastern. For more information on the meeting and the agenda, contact Julie Cairns at julie.cairns@csagroup.org

ANSI Accredited Standards Developer

Natural Gas Transportation Technical Committee (CSA Group)

Thursday, April 22, 2021

CSA Group will hold the Natural Gas Transportation Technical Committee meeting by WebEx on Thursday, April 22, 2021 from 1 pm to 3 pm Eastern. For more information on the meeting and the agenda, contact Julie Cairns at julie.cairns@csagroup.org.

American National Standards (ANS) Process

Please visit ANSI's website (www.ansi.org) for resources that will help you to understand, administer and participate in the American National Standards (ANS) process. Documents posted at these links are updated periodically as new documents and guidance are developed, whenever ANS-related procedures are revised, and routinely with respect to lists of proposed and approved ANS. The main ANS-related link is www.ansi.org/asd and here are some direct links as well as highlights of information that is available:

Where to find Procedures, Guidance, Interpretations and More...

Please visit ANSI's website (www.ansi.org)

- ANSI Essential Requirements: Due process requirements for American National Standards (always current edition): www.ansi.org/essentialrequirements
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures): www.ansi.org/standardsaction
- Accreditation information – for potential developers of American National Standards (ANS): www.ansi.org/sdoaccreditation
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form): www.ansi.org/asd
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: www.ansi.org/asd
- American National Standards Key Steps: www.ansi.org/anskeysteps
- American National Standards Value: www.ansi.org/ansvalue
- ANS Web Forms for ANSI-Accredited Standards Developers - PINS, BSR8|108, BSR11, Technical Report: <https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR): <https://ibr.ansi.org/>
- ANSI - Education and Training: www.standardslearn.org

If you have a question about the ANS process and cannot find the answer, please email us at: psa@ansi.org . Please also visit Standards Boost Business at www.standardsboostbusiness.org for resources about why standards matter, testimonials, case studies, FAQs and more.

If you are interested in purchasing an American National Standard, please visit <https://webstore.ansi.org>

American National Standards Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provides two options for the maintenance of American National Standards (ANS): periodic maintenance (see clause 4.7.1) and continuous maintenance (see clause 4.7.2). Continuous maintenance is defined as follows:

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements.

The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option.

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- **AAMI (Association for the Advancement of Medical Instrumentation)**
 - **AARST (American Association of Radon Scientists and Technologists)**
 - **AGA (American Gas Association)**
 - **AGSC (Auto Glass Safety Council)**
 - **ASC X9 (Accredited Standards Committee X9, Incorporated)**
 - **ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)**
 - **ASME (American Society of Mechanical Engineers)**
 - **ASTM (ASTM International)**
 - **GBI (Green Building Initiative)**
 - **HL7 (Health Level Seven)**
 - **IES (Illuminating Engineering Society)**
 - **ITI (InterNational Committee for Information Technology Standards)**
 - **MHI (Material Handling Industry)**
 - **NAHBRC (NAHB Research Center, Inc.)**
 - **NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)**
 - **NCPDP (National Council for Prescription Drug Programs)**
 - **NEMA (National Electrical Manufacturers Association)**
 - **NISO (National Information Standards Organization)**
 - **NSF (NSF International)**
 - **PRCA (Professional Ropes Course Association)**
 - **RESNET (Residential Energy Services Network, Inc.)**
 - **SAE (SAE International)**
 - **TCNA (Tile Council of North America)**
 - **TIA (Telecommunications Industry Association)**
 - **UL (Underwriters Laboratories)**

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, select "American National Standards Maintained Under Continuous Maintenance." Questions? psa@ansi.org.

ANSI-Accredited Standards Developers Contacts

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment and Final Actions. This section is a list of developers who have submitted standards for this issue of *Standards Action* – it is not intended to be a list of all ANSI-Accredited Standards Developers. Please send all address corrections to Standards Action Editor at standact@ansi.org.

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NEMA (ASC C82)

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NEMA (Cavass)

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ISO & IEC Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) are considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO and IEC members for comment and vote. Standards Action readers interested in reviewing and commenting on these documents should order copies from ANSI.

COMMENTS

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

Those regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). The final date for offering comments is listed after each draft.

ORDERING INSTRUCTIONS

ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an ISO or IEC Draft to Customer Service at sales@ansi.org. When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

ISO Standards

AIR QUALITY (TC 146)

ISO/DIS 10849, Stationary source emissions - Determination of the mass concentration of nitrogen oxides in flue gas - Performance characteristics of automated measuring systems - 5/10/2021, \$119.00

ISO/DIS 19694-3, Stationary source emissions - Determination of greenhouse gas (GHG) emissions in energy-intensive industries - Part 3: Cement industry - 11/9/2020, \$146.00

ISO/DIS 19694-5, Stationary source emissions - Determination of greenhouse gas (GHG) emissions in energy-intensive industries - Part 5: Lime industry - 11/9/2020, \$125.00

ISO/DIS 19694-6, Stationary source emissions - Determination of greenhouse gas (GHG) emissions in energy-intensive industries - Part 6: Ferroalloy industry - 11/9/2020, \$102.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 5224, Rotorcrafts - Flight Dynamics - Vocabulary and symbols - 5/6/2021, \$88.00

APPLICATIONS OF STATISTICAL METHODS (TC 69)

ISO/DIS 28596, Sampling procedures for inspection by attributes - Two-stage sampling plans for auditing and for inspection under prior information - 5/7/2021, \$112.00

BANKING AND RELATED FINANCIAL SERVICES (TC 68)

ISO/DIS 9564-5, Financial services - Personal Identification Number (PIN) management and security - Part 5: Methods for the generation, change, and verification of PINs and card security data using the advanced encryption standard - 5/8/2021, \$58.00

CERAMIC TILE (TC 189)

ISO/DIS 10545-18, Ceramic tiles - Part 18: Determination of Light Reflectance Value (LRV) - 5/7/2021, \$40.00

GAS CYLINDERS (TC 58)

ISO/DIS 13338, Gas cylinders - Gases and gas mixtures - Determination of corrosiveness for the selection of cylinder valve outlet - 5/8/2021, \$46.00

ISO/DIS 22434, Gas cylinders - Inspection and maintenance of valves - 5/8/2021, \$46.00

MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)

ISO/DIS 13503-3, Petroleum and natural gas industries - Completion fluids and materials - Part 3: Testing of heavy brines - 5/8/2021, \$53.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 19056-3, Microscopes - Definition and measurement of illumination properties - Part 3: Incident light fluorescence microscopy with incoherent light sources - 5/10/2021, \$46.00

PLASTICS (TC 61)

ISO/DIS 22007-2, Plastics - Determination of thermal conductivity and thermal diffusivity - Part 2: Transient plane heat source (hot disc) method - 5/9/2021, \$77.00

ROAD VEHICLES (TC 22)

ISO/DIS 14400, Road vehicles - Wheels and rims - Use, general maintenance and safety requirements and out-of-service conditions - 5/7/2021, \$71.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO/DIS 23730, Marine technology - Marine environment impact assessment (MEIA) - General technical requirement - 5/8/2021, \$46.00

SOLAR ENERGY (TC 180)

ISO/DIS 24194, Solar energy - Collector fields - Check of performance - 5/8/2021, \$98.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 23956, Traditional Chinese medicine - Determination of benzopyrene in processed natural products - 5/7/2021, \$58.00

VALVES (TC 153)

ISO/DIS 28921-1, Industrial valves - Isolating valves for low-temperature applications - Part 1: Design, manufacturing and production testing - 5/7/2021, \$93.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 17636-1, Non-destructive testing of welds - Radiographic testing - Part 1: X- and gamma-ray techniques with film - 5/10/2021, \$107.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 9594-2/DAmD1, Information technology - Open systems interconnection - Part 2: The Directory: Models - Amendment 1: Password policy support - 11/10/2028, \$33.00

ISO/IEC 18013-3/DAmD1, Information technology - Personal identification - ISO-compliant driving licence - Part 3: Access control, authentication and integrity validation - Amendment 1: PACE protocol - 5/7/2021, \$67.00

ISO/IEC 23008-12/DAmD2, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 12: Image File Format - Amendment 2: Support for VVC, EVC, slideshows and other improvements - 5/10/2021, \$102.00

ISO/IEC DIS 29168-1, Information technology - Open systems interconnection - Part 1: Object identifier resolution system - 5/8/2021, \$88.00

IEC Standards

17C/765/CDV, IEC 62271-203 ED3: High-voltage switchgear and controlgear - Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV, 05/07/2021

20/1953/CD, IEC 60287-1-3 ED2: Electric cables - Calculation of the current rating - Part 1-3: Current rating equations (100% load factor) and calculation of losses - Current sharing between parallel single-core cables and calculation of circulating current losses, 05/07/2021

20/1954/CD, IEC 60287-2-1 ED3: Electric cables - Calculation of the current rating - Part 2-1: Thermal resistance - Calculation of the thermal resistance, 05/07/2021

26/719/FDIS, IEC 60974-8 ED3: Arc welding equipment - Part 8: Gas consoles for welding and plasma cutting systems, 03/26/2021

31/1566/FDIS, IEC 62990-2 ED1: Workplace atmospheres - Part 2: Gas detectors - Selection, installation, use and maintenance of detectors for toxic gases and vapours, 03/26/2021

35/1465/FDIS, IEC 60086-1 ED13: Primary batteries - Part 1: General, 03/26/2021

35/1466/FDIS, IEC 60086-2 ED14: Primary batteries - Part 2: Physical and electrical specifications, 03/26/2021

35/1467/FDIS, IEC 60086-3 ED5: Primary batteries - Part 3: Watch batteries, 03/26/2021

40/2823/CD, IEC 60384-19 ED4: Fixed capacitors for use in electronic equipment - Part 19: Sectional specification: Fixed metallized polyethylene terephthalate film dielectric surface mount DC capacitors, 05/07/2021

40/2824/CD, IEC 60286-2 ED5: Packaging of components for automatic handling - Part 2: Tape packaging of components with unidirectional leads on continuous tapes, 05/07/2021

44/893/CD, IEC TS 61496-4-2 ED2: Safety of machinery - Electro-sensitive protective equipment - Part 4-2: Particular requirements for equipment using vision based protective devices (VBPD) - Additional requirements when using reference pattern techniques (VBPDPP), 04/09/2021

44/894/CD, IEC TS 61496-4-3 ED2: Safety of machinery - Electro-sensitive protective equipment - Part 4-3: Particular requirements for equipment using vision based protective devices (VBPD) - Additional requirements when using stereo vision techniques (VBPDST), 04/09/2021

44/895/CD, IEC TS 61496-5 ED1: Safety of machinery - Electro-sensitive protective equipment - Part 5: Particular requirements for radar-based protective Devices, 05/07/2021

46A/1466/NP, PNW 46A-1466 ED1: Coaxial communication cables - Part 12: Specification for hanging brackets for radiating cables, 05/07/2021

47/2689/NP, PNW 47-2689 ED1: Semiconductor devices - Mechanical and climatic test methods - Part 34-1: Power cycling test for power semiconductor module, 05/07/2021

47A/1115/FDIS, IEC 62228-5 ED1: Integrated circuits - EMC evaluation of transceivers - Part 5: Ethernet transceivers, 03/26/2021

47E/736/CDV, IEC 60747-5-14 ED1: Semiconductor devices - Part 5-14: Optoelectronic devices - Light emitting diodes - Test method of the surface temperature based on the thermorefectance method, 05/07/2021

47E/737/CDV, IEC 60747-5-15 ED1: Semiconductor devices - Part 5-15: Optoelectronic devices - Light emitting diodes - Test method of the flat-band voltage based on the electroreflectance spectroscopy, 05/07/2021

47E/738/CDV, IEC 60747-5-4 ED2: Semiconductor devices - Part 5-4: Optoelectronic devices - Semiconductor lasers, 05/07/2021

56/1916/CD, IEC 61025 ED3: Fault tree analysis (FTA), 05/07/2021

56/1917/CD, IEC 60300-3-14 ED2: Dependability management - Part 3-14: Application guide - Supportability and support, 05/07/2021

57/2355/FDIS, IEC 62488-3 ED1: Power line communication systems for power utility applications - Part 3: Digital Power Line Carrier (DPLC) terminals and hybrid ADPLC terminals, 03/26/2021

- 57/2356/DC, Revision of IEC 61970-457:2021 ED1, Energy management system application program interface (EMS-API) - Part 457: Dynamics profile, 03/26/2021
- 62A/1434/FDIS, IEC 80001-1 ED2: Safety, effectiveness and security in the implementation and use of connected medical devices or connected health software - Part 1: Application of risk management, 03/26/2021
- 65C/1083/FDIS, IEC 61784-3-X ED4: Industrial communication networks - Profiles - Part 3-X: Functional safety fieldbuses - Additional specifications for CPF X, 03/26/2021
- 80/991/CD, IEC 63269 ED1: Maritime navigation and radiocommunication equipment and systems - Maritime survivor locating devices (Man Overboard Devices) - Minimum requirements, methods of testing and required test results, 05/07/2021
- 85/755(F)/FDIS, IEC 61557-12/AMD1 ED2: Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 12: Power metering and monitoring devices (PMD), 03/12/2021
- 86B/4407(F)/CDV, IEC 61753-101-03 ED1: Fibre optic interconnecting devices and passive components performance standard - Part 101-03: Fibre management systems for Category OP - Outdoor protected environment, 04/30/2021
- 86B/4408(F)/CDV, IEC 61753-111-07 ED1: Fibre optic interconnecting devices and passive components performance standard - Part 111-07: Sealed closures for category A - Aerial, 04/30/2021
- 86B/4409(F)/CDV, IEC 61753-111-09 ED1: Fibre optic interconnecting devices and passive components performance standard - Part 111-09: Sealed closures for category S - Subterranean, 04/30/2021
- 86B/4413/CDV, IEC 61753-131-03 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 131-3: Single-mode mechanical fibre splice for category OP - Outdoor Protected environment, 05/07/2021
- 96/499/FDIS, IEC 61558-2-1 ED3: Safety of transformers, reactors, power supply units and combinations thereof - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications, 03/26/2021
- 106/534/CD, IEC TR 63377 ED1: Procedures for the assessment of human exposure to electromagnetic fields from radiative wireless power transfer systems - measurement and numerical simulation methods (Frequency range of 30 MHz to 300 GHz), 05/07/2021
- 110/1293/CD, IEC 63145-1-2 ED1: Eyewear display - Part 1-2: Generic - Terminology, 04/09/2021
- 112/520/DTR, IEC TR 62039 ED2: Selection guide for polymeric materials for outdoor use under HV stress, 04/09/2021
- 121A/406(F)/FDIS, IEC 60947-9-2 ED1: Low-voltage switchgear and controlgear - Part 9-2: Active arc-fault mitigation systems - Optical-based internal arc-detection and mitigation devices, 02/26/2021
- 124/136(F)/FDIS, IEC 63203-201-3 ED1: Wearable electronic devices and technologies - Part 201-3: Electronic textile - Determination of electrical resistance of conductive textiles under simulated microclimate, 03/12/2021



Newly Published ISO & IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization – and IEC – the International Electrotechnical Commission. Most are available at the ANSI Electronic Standards Store (ESS) at www.ansi.org. All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 6540:2021](#), Maize - Determination of moisture content (on milled grains and on whole grains), \$149.00

BUILDING CONSTRUCTION (TC 59)

[ISO 23234:2021](#), Buildings and civil engineering works - Security - Planning of security measures in the built environment, \$149.00

BUILDING ENVIRONMENT DESIGN (TC 205)

[ISO 22185-1:2021](#), Diagnosing moisture damage in buildings and implementing countermeasures - Part 1: Principles, nomenclature and moisture transport mechanisms, \$149.00

CORROSION OF METALS AND ALLOYS (TC 156)

[ISO 22848:2021](#), Corrosion of metals and alloys - Test method for measuring the stress corrosion crack growth rate of steels and alloys under static-load conditions in high-temperature water, \$149.00

ENVIRONMENTAL MANAGEMENT (TC 207)

[ISO 14053:2021](#), Environmental management - Material flow cost accounting - Guidance for phased implementation in organizations, \$111.00

[ISO 14091:2021](#), Adaptation to climate change - Guidelines on vulnerability, impacts and risk assessment, \$200.00

FINE CERAMICS (TC 206)

[ISO 21820:2021](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Ultraviolet photoluminescence image test method for analysing polytypes of boron- and nitrogen-doped SiC crystals, \$175.00

FIRE SAFETY (TC 92)

[ISO 3008-4:2021](#), Fire resistance tests - Door and shutter assemblies - Part 4: Linear joint fire seal materials used to seal the gap between a fire door frame and the supporting construction, \$73.00

FIREWORKS (TC 264)

[ISO 22863-9:2021](#), Fireworks - Test methods for determination of specific chemical substances - Part 9: Mercury content by hydride generation atomic fluorescence spectrometry, \$73.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

[ISO 19135-1/Amd1:2021](#), Geographic information - Procedures for item registration - Part 1: Fundamentals - Amendment 1, \$20.00

GEOSYNTHETICS (TC 221)

[ISO 25619-1:2021](#), Geosynthetics - Determination of compression behaviour - Part 1: Compressive creep properties, \$111.00

OTHER

[ISO 27587:2021](#), Leather - Chemical tests - Determination of free formaldehyde in process auxiliaries, \$73.00

[ISO 17226-1:2021](#), Leather - Chemical determination of formaldehyde content - Part 1: Method using high-performance liquid chromatography, \$73.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO 19918/Amd1:2021](#), Protective clothing - Protection against chemicals - Measurement of cumulative permeation of chemicals with low vapour pressure through materials - Amendment 1: Extraction and chemical analysis, \$20.00

PLASTICS (TC 61)

[ISO 16790:2021](#), Plastics - Determination of drawing characteristics of thermoplastics in the molten state, \$111.00

[ISO 23976:2021](#), Plastics - Fast differential scanning calorimetry (FSC) - Chip calorimetry, \$175.00

[ISO 24047:2021](#), Plastics - Polyethylene (PE) and polypropylene (PP) thermoplastics - Determination of metal content by ICP-OES, \$73.00

[ISO 6721-3:2021](#), Plastics - Determination of dynamic mechanical properties - Part 3: Flexural vibration - Resonance-curve method, \$111.00

[ISO 11357-8:2021](#), Plastics - Differential scanning calorimetry (DSC) - Part 8: Determination of thermal conductivity, \$111.00

ROAD VEHICLES (TC 22)

[ISO 21612:2021](#), Road vehicles - Crosstalk determination for multi-axis load cell, \$48.00

SMALL TOOLS (TC 29)

[ISO 23481:2021](#), Tools for pressing - Cam driver plates, \$48.00

SOLID BIOFUELS (TC 238)

[ISO 17225-3:2021](#), Solid biofuels - Fuel specifications and classes - Part 3: Graded wood briquettes, \$73.00

[ISO 17225-4:2021](#), Solid biofuels - Fuel specifications and classes - Part 4: Graded wood chips, \$73.00

TECHNICAL SYSTEMS AND AIDS FOR DISABLED OR HANDICAPPED PERSONS (TC 173)

[ISO 17190-2:2021](#), Urine-absorbing aids for incontinence - Polyacrylate superabsorbent powders - Part 2: Test method for determination of the amount of residual acrylate monomers, \$73.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

[ISO 11839:2021](#), Machinery for forestry - Thrown object guard - Test method and performance criteria, \$73.00

[ISO 6489-3:2021](#), Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 3: Tractor drawbar, \$73.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

[ISO 14819-2:2021](#), Intelligent transport systems - Traffic and travel information messages via traffic message coding - Part 2: Event and information codes for Radio Data System-Traffic Message Channel (RDS-TMC) using ALERT-C, \$250.00

ISO Technical Reports**FLUID POWER SYSTEMS (TC 131)**

[ISO/TR 4808:2021](#), Hydraulic fluid power - Interpolation method for particle count and filter test data, \$73.00

ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 33017:2021](#), Information technology - Process assessment - Framework for assessor training, \$111.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 20008-2/Amd1:2021](#), Information technology - Security techniques - Anonymous digital signatures - Part 2: Mechanisms using a group public key - Amendment 1, \$20.00

[ISO/IEC 22123-1:2021](#), Information technology - Cloud computing - Part 1: Vocabulary, \$48.00

[ISO/IEC 23090-3:2021](#), Information technology - Coded representation of immersive media - Part 3: Versatile video coding, \$250.00

[ISO/IEC TS 27110:2021](#), Information technology, cybersecurity and privacy protection - Cybersecurity framework development guidelines, \$149.00

IEC Standards**AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)**

[IEC 61937-SER Ed. 1.0 b:2021](#), Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - ALL PARTS, \$1732.00

[IEC 61937-1 Ed. 3.0 b:2021](#), Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 1: General, \$183.00

[S+ IEC 61937-1 Ed. 3.0 en:2021 \(Redline version\)](#), Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 1: General, \$239.00

CABLES, WIRES, WAVEGUIDES, R.F. CONNECTORS, AND ACCESSORIES FOR COMMUNICATION AND SIGNALLING (TC 46)

[IEC 61169-66 Ed. 1.0 b:2021](#), Radio-frequency connectors - Part 66: Sectional specification for RF coaxial connectors with 5 mm inner diameter of outer conductor, with quick-lock- or screw-coupling, characteristic impedance 50 Ω (series 2,2-5), \$259.00

LIGHTNING PROTECTION (TC 81)

[IEC 62793 Ed. 2.0 b:2020](#), Thunderstorm warning systems - Protection against lightning, \$310.00

POWER ELECTRONICS (TC 22)

[IEC 61800-5-3 Ed. 1.0 b:2021](#), Adjustable speed electrical power drive systems - Part 5-3: Safety requirements - Functional, electrical and environmental requirements for encoders, \$417.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

[IEC 60335-2-110 Ed. 1.1 en:2019](#), Household and similar electrical appliances - Safety - Part 2-110: Particular requirements for commercial microwave appliances with insertion or contacting applicators, \$443.00

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

[IEC 61215-1 Ed. 2.0 b:2021](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements, \$310.00

[IEC 61215-2 Ed. 2.0 b:2021](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures, \$354.00

[IEC 61215-1-1 Ed. 2.0 en:2021](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules, \$89.00

[IEC 61215-1-3 Ed. 2.0 b:2021](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules, \$51.00

[IEC 61215-1-4 Ed. 2.0 b:2021](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se)₂ based photovoltaic (PV) modules, \$89.00

[S+ IEC 61215-1 Ed. 2.0 en:2021 \(Redline version\)](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements, \$404.00

[S+ IEC 61215-2 Ed. 2.0 en:2021 \(Redline version\)](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures, \$460.00

[S+ IEC 61215-1-1 Ed. 2.0 en:2021 \(Redline version\)](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules, \$115.00

[S+ IEC 61215-1-3 Ed. 2.0 en:2021 \(Redline version\)](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules, \$66.00

[S+ IEC 61215-1-4 Ed. 2.0 en:2021 \(Redline version\)](#), Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se)₂ based photovoltaic (PV) modules, \$115.00

SURFACE MOUNTING TECHNOLOGY (TC 91)

[IEC 61188-6-1 Ed. 1.0 b:2021](#), Circuit boards and circuit board assemblies - Design and use - Part 6-1: Land pattern design - Generic requirements for land pattern on circuit boards, \$259.00

Accreditation Announcements (U.S. TAGs to ISO)

Public Review of Application for Accreditation of a U.S. TAG to ISO

U.S. Technical Advisory Group (TAG) to ISO TC 334, Reference materials

Comment Deadline: March 29, 2021

The National Institute of Standards and Technology (NIST), an ANSI Member and Accredited Standards Developer (ASD), has submitted an Application for Accreditation for a new proposed U.S. Technical Advisory Group (TAG) to ISO TC 334, Reference materials, and a request for approval as TAG Administrator. The proposed TAG intends to operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures.

To obtain a copy of the TAG application or to offer comments, please contact: Ms. Karen E. Murphy, B.Sc., NIST, 100 Bureau Drive, Stop 8391, Bldg. 227, Room B356, Gaithersburg, MD 20899; phone: 301.975.4140; email: karen.murphy@nist.gov. Please submit any comments to NIST by March 29, 2021 (please copy jthomps@ansi.org)

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 118/SC 3 – Pneumatic tools and machines

ANSI has been informed that the Compressed Air & Gas Institute (CAGI), the ANSI-accredited U.S. TAG Administrator for ISO/TC 118 - Compressors and pneumatic tools, machines and equipment, wishes to relinquish their role as U.S. TAG Administrator of ISO/TC 118/SC 3 – Pneumatic tools and machines. (CAGI will retain the U.S. TAG Administrator role for ISO/TC 118.)

ISO/TC 118/SC 3 operates under the following scope:

Standardization in the field of pneumatic tools and machines.

Exception: Pneumatic tool shanks and tool fitting dimensions as they fall within the scope of ISO/TC 29.

Note: Definitions of hydraulic tools and machines are included.

Organizations interested in serving as the U.S. TAG Administrator or participating on a U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

International Organization for Standardization (ISO)

ISO Proposal for a New Field of ISO Technical Activity

Assistance Dogs

Comment Deadline: February 26, 2021

NEN, the ISO member body for [Netherlands], has submitted to ISO a proposal for a new field of ISO technical activity on Assistance Dogs, with the following scope statement:

Standardization in the field of assistance dogs focused on, but not limited to:

- terminology
- health and welfare
- breeding and puppy development
- training
- client services
- assistance dog professionals
- conformity assessment, and
- accessibility

Assistance dogs are specifically trained to perform tasks to increase independence and to mitigate limitations of a person with a disability.

Excluded are:

- dogs that offer only emotional support and/or comfort (i.e. emotional support dogs)
- dog assisted interventions such as facility dogs or dog assisted therapy
- other kinds of working dogs such as herding dogs, police dogs, search & rescue dogs

Background information:

An assistance dog is permanently paired with a person with a disability to perform on a one-to-one basis tasks to mitigate the limitations of this person.

Please note that 'assistance dog' is the umbrella term. Examples of assistance dogs (in alphabetical order) are autism assistance dogs, developmental disorder assistance dogs, diabetes assistance dogs, guide dogs, hearing dogs, medical alert/response assistance dogs, mobility assistance dogs, PTSD assistance dogs, seizure assistance dogs.

In some countries, an assistance dog is referred to as a service dog.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, February 26, 2021.

International Organization for Standardization (ISO)

ISO Proposal for a New Field of ISO Technical Activity

Chain of Custody

Comment Deadline: March 26, 2021

NEN, the ISO member body for the Netherlands and secretariat of ISO Project Committee 308 (ISO/PC 308), has submitted to ISO a proposal for a new field of ISO technical activity on Chain of custody, with the following scope statement

Standardization in the field of chain of custody (CoC) for products and associated processes with specified characteristics, with the aim of ensuring that associated claims are reliable.

Please note that NEN proposed a new work item proposal on this subject in 2016 which was approved, and the standard ISO 22095:2020 (Chain of custody — General terminology and models) was developed under ISO/PC 308. This proposal is to convert ISO/PC 308 into a technical committee with an extended work program.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, March 26, 2021.

Organizations interested in participating in the U.S. TAG or obtaining additional information should contact the U.S. TAG Administrator, Grace Roh Grace.Roh@ul.com of Underwriters Laboratories.

New Secretariats

ISO/TC 96/SC 6 - Mobile Cranes

Comment Deadline: March 12, 2021

The Association of Equipment Manufacturers (AEM) has requested to delegate the responsibilities of the administration of the ISO/TC 96/SC 6 secretariat to ANSI. The secretariat was previously held by the American Society of Mechanical Engineers (ASME) and the secretariat transfer is supported by the U.S. TAG.

ISO/TC 96/SC 6 operates under the following scope:

Standardization of terminology, load rating, testing, safety, and general design principles of equipment and components used in the construction, inspection, maintenance and safe operation of mobile cranes.

Organizations wishing to comment on the delegation of the responsibilities should contact ANSI's ISO Team (isot@ansi.org).

Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.

When organization names are submitted to ANSI for registration, they will be listed here alphanumerically. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

Public Review

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge. A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn the Secretariat issues and makes available these notifications. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The USA Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. To register for Notify U.S., please visit: <http://www.nist.gov/notifyus/>

The USA WTO TBT Inquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance available on Notify U.S. at: <https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> prior to submitting comments.

For further information about the USA TBT Inquiry Point, please visit: <https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point> Contact the USA TBT Inquiry Point at (301) 975-2918; F: (301) 926-1559; E: usatbtep@nist.gov or notifyus@nist.gov.

Public Review Draft

Proposed Addendum c to Standard 189.1-2020

Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

First Public Review (February 2021)
(Draft Shows Proposed Changes to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research-technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

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ASHRAE, 180 Technology Pkwy NW, Peachtree Corners, GA 30092



BSR/ASHRAE/ICC/USGBC/IES Addendum c to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* First Public Review Draft.

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(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

Foreword

This addendum simplifies the requirements for hot-water distribution by eliminating specific instructions for calculating pipe volume. The SSPC believes that the detailed material currently included in the standard, especially Table 6.3.3.1, is more appropriate for reference material such as a User's Manual. The requirements addressed by this addendum are expected to be enforced through plan review processes.

The addendum is not expected to increase the cost of compliance and may reduce it through simplification of the requirements. The existing exception is clarified by using the term "metering lavatory faucets" that more precisely identifies what is being excepted. Commercial kitchens have been added to the exception due to their highly dense and frequently used collection of fixtures.

The International Plumbing Code and multiple IAPMO codes have similar requirements.

[Note to Reviewers: This addendum makes proposed changes to the published standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum c to 189.1-2020

Revise section 6.3.2.1(e) as follows:

6.3.2.1 Plumbing Fixtures and Fittings...

e. Public metering ~~self-closing~~ faucet. Maximum water use shall not exceed 0.25 gal (1.0 L) per metering cycle when tested in accordance with ASME A112.18.1/CSA B125.1.

Revise Table 6.3.2.1 as follows:

Table 6.3.2.1 Plumbing Fixture and Fittings Requirements

| Plumbing Fixture | Maximum |
|---|---|
| Water closets (toilets)—flushometer single-flush valve type | Single-flush volume of 1.28 gal (4.8 L) |

BSR/ASHRAE/ICC/USGBC/IES Addendum c to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* First Public Review Draft.

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|--|--|
| Water closets (toilets)—flushometer dual-flush valve type | Full-flush volume of 1.28 gal (4.8 L) |
| Water closets (toilets)—single-flush tank-type | Single-flush volume of 1.28 gal (4.8 L) |
| Water closets (toilets)—dual-flush tank-type | Full-flush volume of 1.28 gal (4.8 L) |
| Urinals | Flush volume 0.5 gal (1.9 L) |
| Public lavatory faucets | Flow rate—0.5 gpm (1.9 L/min) |
| Public metering self-closing faucet | 0.25 gal (1.0 L) per metering cycle |
| <i>Residential</i> bathroom lavatory sink faucets | Flow rate—1.5 gpm (5.7 L/min) |
| <i>Residential</i> kitchen faucets | Flow rate—1.8 gpm (6.8 L/min) ^a |
| <i>Residential</i> showerheads | Flow rate—2.0 gpm (7.6 L/min) |
| <i>Residential</i> shower compartment (stall) in <i>dwelling units</i> and guest rooms | Flow rate from all shower outlets total of 2.0 gpm (7.6 L/min) |

Revise section 6.3.3 as follows:

6.3.3 Hot-Water Distribution. Hot-water distribution ~~pipes~~ pipng shall be in accordance with Section 6.3.3.1 and Section 6.3.3.2.

6.3.3.1 Maximum Allowable Pipe Volume. The maximum volume of water in the ~~pipes~~ pipng between the source of hot or tempered water and the fixtures shall be 64 oz (1.9 L) where the source of hot or tempered water is a water heater, and shall be 24 oz (0.71 L) where the source of hot or tempered water is a circulation loop pipe or an electrically heat-traced pipe. For the purpose of Section 6.3.3, the source of hot or tempered water shall be the point of connection to a water heater, heat-traced pipe, or a circulation loop.

~~The volume shall be the sum of the internal volumes of pipe, fittings, valves, meters, and manifolds between the source of hot or tempered water and the termination of the fixture supply pipe. The volume shall be determined using Table 6.3.3.1. The volume contained within fixture shutoff valves, flexible water supply connectors to a fixture fitting, or within a fixture fitting shall not be included in the water volume determination. Where the source of hot or tempered water is a circulation loop pipe or an electrically heat-traced pipe, the volume shall include the portion of the fitting on the source pipe that supplies water to the fixture. Where the type of pipe is unknown or not specifically included in the table, the generic pipe column shall be used to determine the volume.~~

Exceptions to 6.3.3.1:

1. Public ~~metering~~ lavatory faucets, ~~lavatory fixtures~~
2. Plumbing fixtures in commercial kitchens.

6.3.3.2 Maximum Length. The maximum ~~pipe~~ pipng length from the source of hot or tempered water to the termination of the fixture supply pipe serving any plumbing fixture or appliance shall not exceed 50 ft (15 m) of developed length.

Table 6.3.3.1 Internal Volume of Pipe or Tube in I-P (SI)

| Ounces (Litres) of Water per Foot (Metre) of Pipe | | | | |
|---|---------------------|----------------------|------------------------|----------------------|
| Nominal Size, in. (Dimension Nominal [DN], mm) | Generic Pipe | Copper Type L | CPVC CTS SDR 11 | PEX CTS SDR 9 |
| 1/4 (8) | 0.33 (0.03) | 0.52 (0.05) | 0.37 (0.04) | 0.33 (0.03) |
| 5/16 (9) | 0.5 (0.05) | NA (NA) | NA (NA) | 0.48 (0.05) |

BSR/ASHRAE/ICC/USGBC/IES Addendum c to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* First Public Review Draft.

| | | | | |
|------------|-------------|--------------|--------------|--------------|
| 3/8 (10) | 0.75 (0.07) | 0.97 (0.09) | 0.75 (0.07) | 0.68 (0.07) |
| 1/2 (15) | 1.5 (0.15) | 1.55 (0.15) | 1.25 (0.12) | 1.18 (0.11) |
| 5/8 (18) | 2 (0.19) | 2.23 (0.22) | NA (NA) | 1.78 (0.17) |
| 3/4 (20) | 3 (0.29) | 3.22 (0.31) | 2.67 (0.26) | 2.35 (0.23) |
| 1 (25) | 5 (0.49) | 5.47 (0.53) | 4.43 (0.43) | 3.91 (0.38) |
| 1 1/4 (32) | 8 (0.78) | 8.36 (0.81) | 6.61 (0.64) | 5.81 (0.56) |
| 1 1/2 (40) | 11 (1.07) | 11.83 (1.15) | 9.22 (0.89) | 8.09 (0.78) |
| 2 (50) | 18 (1.75) | 20.58 (2.00) | 15.79 (1.53) | 13.86 (1.34) |

NA = No value provided based on lack of availability of pipe in this size.

BSR/IICRC Draft S100

Standard for Professional Cleaning of Textile Floor Coverings

1.3 Principles of Textile Floor Covering Cleaning

1.3.1 Principle 1: Dry Particulate Soil Removal

Dry Vacuuming techniques and frequencies should be selected based on an understanding of how and where particle soils accumulate in carpet. Cleaning technicians should use vacuum stroking patterns (e.g., fore-and-aft; single path) that increase dry particle soil removal.

An appropriate vacuum cleaning system should be selected for a particular application.

It is recommended when textile floor covering styles exhibit crushing, matting, or tangling in entry, pivot, or high-traffic areas that pile preparation precedes dry vacuuming. Pile preparation can be achieved using an appropriate carpet groomer, manual or mechanical brushes, or powered pile lifter. Dry soil removal should be the first step in any system of textile floor covering cleaning. Additional attention should be given to heavily soiled areas such as entryways and edges, as needed. The carpet cleaner should not use vacuum attachments with revolving brushes on loop pile, staple fiber carpet.

1.1.2.1 Chemical Activity

- Soluble detergents may be liquids or powders. These products can contain surfactants, encapsulants, with or without semi-polar solvents and with or without chemical reactants.
- Other cleaning agents may be adsorbent/absorbent textiles or granular both with appropriate wetting agents.

All cleaning products shall be used according to their labeled instructions.

Cleaning products used on carpets and rugs should be consistent with known recommendations of the textile manufacturer. The cleaning technician should use products that are appropriate for the fibers being cleaned.

9 Safety and Health

9.7 General Work Practices

The safety and health of the cleaning technician shall be a primary concern of their employers. The cleaning technicians shall perform a Hazard Assessment and certify it in writing. Reasonable efforts should be made to inform and protect building occupants of hazards and potential hazards identified in the assessment.

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12 Spot and Stain Removal

12.4 Identifying Spots and Stains

A quick examination of a spill, spot or stain may provide enough information to identify its category. If possible, the cleaning technician should ask about the source of spots or stains. People who live or work in the house or building are most likely to know what caused the spots or stains. A direct and truthful answer is not always available, but you may obtain useful information.

12.5.3 Test

Test any spot removal agent in an inconspicuous area. Take the time to be sure that your cleaning chemical and technique are both effective and safe for the carpet or rug being cleaned. In addition, excessive heat used in spotting can set some stains and should be avoided until the stain has been identified.

If blood is suspected, apply a few drops of hydrogen peroxide to the stain. If it foams, the spot is likely to be blood. The presence of blood is a hazardous condition. The cleaning technician shall follow the universal precautions contained in their exposure control plan, at minimum, gloves, eyewear and respiratory protection.

If ink is suspected, it may be helpful to create a water-based barrier around the stain to prevent it from spreading. Ammonia or a formulated product can be used for this purpose.

14 Commercial Cleaning

14.6.3 Workplace Evaluation

The cleaning technician shall perform a hazard assessment at the designated workspace prior to cleaning. Report any site issues related to safety, pre-existing conditions and damage. Identify soil loads to determine the best process to be used. It is recommended to determine who is responsible for replacing all waste receptacles, chair mats or moved items.

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[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~, and additions by grey highlighting. Rationale Statements are in *red italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI International Standard for Food Equipment —

Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transport Equipment

5 Design and construction

5.40 Cappuccino machines with milk reservoirs systems

5.40.1 Except as noted in 5.40.2, milk reservoirs and all milk-conveying components on cappuccino machines shall conform to the temperature performance criteria of NSF/ANSI 18.

5.40.2 ~~The requirements in 5.40.1 shall not apply to~~ If tubing is used to convey milk from a reservoir to a dispensing port or outlet and that tubing is located outside of active temperature control, the tubing is not subject to the temperature performance criteria of NSF/ANSI 18, provided that the tubing is:

- designed and manufactured so that it is completely gravity self-drained of milk between dispenses, or is designed and manufactured to be completely and automatically flushed to waste with potable water or fresh temperature-controlled milk at intervals not exceeding 4 h;
- transparent enough to verify that it is void of milk and has an exposed portion visible to the operator; and
- no greater than 18 in (46 cm) in length when tubing is only gravity self-drained without being flushed.

5.40.3 Milk reservoirs and all milk conveying components, including tubing, shall conform to 5.1.3.

Rationale: This proposed language clarifies the requirements for cappuccino machines that drain and flush/rinse milk conveyance tubing at controlled time intervals.

Tracking number 177i9r1
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Revision to NSF/ANSI 177 – 2019
Revision 1, Issue 9 (February 2021)

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[Note – the changes are seen below using strikethrough for removal of old text and gray highlights to show the suggested text. Updated proposed language to the previous ballot submitted (177i6) is highlighted in yellow. ONLY the highlighted text is within the scope of this ballot.]

NSF International Standard / American National Standard –

Shower Filtration Systems – Aesthetic Effects

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2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this Standard. At the time of publication, the indicated editions were valid. All of the documents are subject to revision and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

APHA, Standard Methods for the Examination of Water and Wastewater, twentieth edition¹

NSF/ANSI 330, *Glossary of Drinking Water Treatment Unit Terminology*

US EPA-600/4-79-020, Methods for the Chemical Analysis of Water and Wastes, March 1983²

US EPA-600/R-94/111, Methods for the Determination of Metals in Environmental Samples, Supplement 1, May 1994⁴

US EPA-90/020, Methods for the Determination of Organic Compounds in Drinking Water, Supplement 1, July 1990⁴

US EPA Guidelines Establishing Test Procedures for the Analysis of Pollutants, 40 CFR Part 136³

US EPA National Primary Drinking Water Regulations, 40 CFR Part 141⁵

US EPA Safe Drinking Water Act, 42 USC s/s 300f et seq. (1974) as amended in 1986⁵

~~USFDA Code of Federal Regulations, Title 21, (Food and Drugs) Direct Food Additive Substances Parts 170 through 199, April 1, 1992⁴~~

21 CFR §. Parts 170-199. Food and Drugs⁴

Rationale: Reference updated and reformatted to be consistent with all applicable NSF standards.

¹ American Public Health Association (APHA), 800 I Street, NW, Washington, DC 20001

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7 Elective performance claims – test methods

7.2.3 Influent challenge water

A public water supply shall be used with the following specific characteristics maintained throughout the test: treated by deionization (DI) or reverse osmosis (RO) followed by deionization and have a conductivity of less than 2 μ S/cm. A test tank shall be filled with the RO/DI or DI water.

All chemical additions shall take place after the test tank is filled with the DI or RO/DI water, or while the test tank is being filled. Use reagent or USP grade chemicals for all additions to adjust the DI or RO/DI water to meet the following specific characteristics:

| Parameter | Specification | Chemical addition |
|---|--|--------------------------------------|
| pH | 7.5 \pm 0.5 7.75 \pm 0.25 | HCl or NaOH |
| alkalinity | 120 \pm 15 mg/L 80 \pm 20 mg/L (as CaCO ₃) | NaHCO ₃ |
| hardness | 110 \pm 10 mg/L (as CaCO ₃) | CaCl ₂ ¹ |
| temperature | 40 \pm 2 °C (104 \pm 4 °F) | — |
| total dissolved solids (TDS) | 200 – 500 mg/L | |
| total organic carbon (TOC) | \geq 4.0 mg/L 1.5 \pm 0.5 mg/L | chlorinated tannic acid ² |
| turbidity | < 1 NTU | no addition |
| free available chlorine | 2 mg/L \pm 0.2 mg/L | NaOCl |
| chloramines, total | < 0.1 mg/L | |
| ¹ CaCl ₂ added as anhydrous or as other hydrated form. ² See Normative Annex 1 (N1) for preparation method. | | |

If a public water supply that meets these specific characteristics is not available, a water supply may be modified using Use the following methods to meet the requirements:

a) Alkalinity adjustment:

Dissolve enough sodium bicarbonate, NaHCO₃, to achieve the required concentration of alkalinity.

b) TOC adjustment:

TOC shall be added as chlorinated tannic acid which is prepared per the method described in Normative Annex 1 (N1). Dissolve enough chlorinated tannic acid (CTA) to achieve the required concentration of total organic carbon (TOC).

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c) Hardness Adjustment:

Dissolve enough calcium chloride to achieve the required concentration of hardness.

a d) pH adjustment:

The pH shall be increased by adding sodium hydroxide (NaOH). The pH shall be decreased by adding hydrochloric acid (HCl).

NOTE - After final pH adjustment and all chemical additions, analyze for alkalinity to confirm the final concentration. Add additional HCL or sodium bicarbonate to meet the required alkalinity concentration while maintaining the required pH specification.

~~b) TDS adjustment:~~

~~The TDS concentration shall be increased by adding sodium chloride (NaCl). The TDS concentration shall be decreased by blending with deionized water.~~

~~ed) FAC adjustment:~~

~~The FAC shall be increased by the addition of bleach (sodium hypochlorite). The FAC shall be decreased by treatment with media and not with the use of a reductive chemical addition.~~

~~d) chloramine adjustment:~~

~~If a water supply requires the removal of chloramines to meet the requirements, the entire molecule (chlorine and ammonium ion) shall be removed from the water supply to prevent the reformation of chloramines during the addition of bleach.~~

f) Analyze free available chlorine, pH, and temperature at each sampling point. Analyze free available chlorine, pH, temperature, turbidity, TOC, and alkalinity for each tank of challenge water. It is recommended that a batch tank of challenge water not be used for longer than 24 h.

~~If deionized water is required to meet the specific characteristics of this section, the TOC requirement shall be waived and 80 mg/L sodium bicarbonate may be added to stabilize the pH.~~

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Normative Annex 1

Preparation of TOC solution using tannic acid

N1.1 Scope and purpose

This procedure outlines the method for preparing a chlorinated tannic acid concentrate to be used to fulfill the TOC requirement.

N1.2 Method summary

Tannic acid is slowly dissolved in 6% to 12% bleach (sodium hypochlorite) to partially chlorinate the tannic acid to improve the stability of the TOC and simulate chlorinated NOM in municipal waters.

N1.3 Safety

N1.3.1 Good laboratory practices (GLP) must be adhered to at all times (the wearing of lab coat, gloves, and safety glasses) to prevent accidental personal contamination and/or exposure to hazardous waste.

N1.3.2 THIS IS A VERY EXOTHERMIC REACTION! Caution must be taken to control the heat generated.

N1.3.2.1 Take care when weighing out the dry tannic acid to avoid creating tannic dust in the air.

N1.3.2.2 Use an ice bath to keep the temperature below 30 °C. Place a thermometer in the solution to monitor the temperature throughout the procedure.

N1.3.2.3 Add the tannic acid slowly over time to ensure the ice bath can dissipate the heat properly.

N1.4 Apparatus and equipment

- large 6 L plastic bucket;
- water bath, something large enough to contain the reaction vessel with room enough for a ring of ice water;
- stir plate and stir bar;
- thermometer able to read between 20 °C and 100 °C +/- 3 °C;
- stir rod; and
- filtering apparatus with Whatman #3 filters or equivalent.

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N1.5 Reagents

- tannic acid (CAS 1401-55-4), reagent grade; and
- 6% to 12% bleach solution

N1.6 Solution preparation

- a) Pour 3.5 L of bleach into a 6 L or larger container and place the container in an ice bath.
- b) Fill the ice bath with ice water to $\frac{3}{4}$ of the way up the reaction container.
- c) Place a large stir bar into the container and place the set-up on stir plate. Start the stir plate.
- d) Set up a thermometer in the bleach so you can constantly monitor the temperature of the reaction. Keep the temperature below 30 °C.
- e) Weigh out 7.75g of tannic acid per % of bleach concentration (6% = 46.5g, 12% = 93g) and slowly start adding it to the bleach in about 10 g increments every 5 to 10 min. Addition may be more rapid as long as the temperature does not exceed 30 °C. The reaction volume may be adjusted as desired as long as the ratio of tannic acid / % bleach is maintained (7.75g per % of bleach concentration).
- f) Stir the solution occasionally to dissolve the tannic acid that floats on the top.
- g) After all the tannic acid is added, allow the solution to stir for about 20 min. If the solution is yellow, add small amounts of tannic acid (1- 2 g) and stir until the solution color changes to brown. The brown color indicates a slight excess of unreacted tannic acid. Yellow indicates the complete chlorination of tannic acid and unreacted chlorine present.
- h) When the reaction is complete turn off the stir plate and allow the undissolved organic matter to settle to the bottom.
- i) Set up the large filter funnel with Whatman #3 filter paper or equivalent in a ventilated hood.
- j) Use vacuum filtration to filter the chlorinated tannic acid solution.
- k) Analyze the resulting solution to determine the concentration of TOC.

Rationale: Updated test water parameters per recommendation by the DWTU Task Group on Shower Filtration Systems. The test water is being revised to minimize the variance seen in filter performance of free available chlorine (FAC) reduction at different laboratories using slightly different challenge waters (presented at 2018 JC meeting).

2021 UPDATE: Revised alkalinity specification in challenge test water under section 7.2.3 per DWTU JC meeting discussion (October 26, 2020) and recommendation by the DWTU Task Group on Shower Filters after additional review of U.S. occurrence data.

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Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by **gray highlighting**. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI/CAN Standard for Drinking Water Additives –

Drinking Water Treatment Chemicals – Health Effects

4 Coagulation and flocculation chemicals

-
-
-

4.7 Normalization

4.7.1 Nonpolymer chemicals

$$\frac{\text{contaminant (mg)}}{\text{analysis solution (L)}} \times \frac{\text{analysis solution (L)}}{\text{product (mg)}} \times \frac{\text{product (mg)}}{\text{drinking water (L)}} = \frac{\text{contaminant (\mu g)}}{\text{drinking water (L)}}$$

[analysis solution]
[lab prep solution]
[MUL]
[at the tap exposure]

$$\frac{\text{[analysis result] contaminant (\mu g)}}{\text{lab solution (L)}} \times \frac{\text{[lab prep volume] lab solution (L)}}{\text{product (mg)}} \times \frac{\text{[MUL] product (mg)}}{\text{drinking water (L)}} = \frac{\text{[at the tap exposure] normalized contaminant (\mu g)}}{\text{drinking water (L)}}$$

4.7.2 Polymer chemicals

$$\frac{\text{[analytical result] contaminant (\mu g)}}{\text{product (g)}} \times \frac{\text{[conversion factor] 1 g}}{1,000 \text{ mg}} \times \frac{\text{[MUL] product (mg)}}{\text{drinking water (L)}} = \frac{\text{[at the tap exposure] contaminant (\mu g)}}{\text{drinking water (L)}}$$

[analysis solution]
[lab prep solution]
[MUL]
[at the tap exposure]

-
-
-

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5.7 Normalization

$$\frac{\text{contaminant (mg)}}{\text{solution (L)}} \times \frac{\text{analysis solution (L)}}{\text{product (g)}} \times \frac{1\text{-g}}{1,000\text{-mg}} \times \frac{1,000\text{-}\mu\text{g}}{1\text{-mg}} = \frac{\text{contaminant } (\mu\text{g})}{\text{drinking water (L)}}$$

[analysis solution]
[lab prep solution]
[MUL]
[at the tap exposure]

$$\frac{\text{[analysis result]}}{\text{contaminant } (\mu\text{g})} \times \frac{\text{[lab prep volume]}}{\text{lab solution (L)}} \times \frac{\text{[MUL]}}{\text{product (mg)}} = \frac{\text{[at-the-tap exposure]}}{\text{normalized contaminant } (\mu\text{g})}$$

$$\frac{\text{lab solution (L)}}{\text{product (mg)}} \times \frac{\text{drinking water (L)}}{\text{drinking water (L)}}$$

6.7 Normalization

$$\frac{\text{contaminant (mg)}}{\text{solution (L)}} \times \frac{\text{analysis solution (L)}}{\text{product (g)}} \times \frac{1\text{-g}}{1,000\text{-mg}} \times \frac{\text{product (mg)}}{\text{drinking water (L)}} \times \frac{1,000\text{-}\mu\text{g}}{1\text{-mg}} = \frac{\text{contaminant } (\mu\text{g})}{\text{drinking water (L)}}$$

[analysis solution]
[lab prep solution]
[MUL]
[at the tap exposure]

$$\frac{\text{[analysis result]}}{\text{contaminant } (\mu\text{g})} \times \frac{\text{[lab prep volume]}}{\text{lab solution (L)}} \times \frac{\text{[MUL]}}{\text{product (mg)}} = \frac{\text{[at-the-tap exposure]}}{\text{normalized contaminant } (\mu\text{g})}$$

$$\frac{\text{lab solution (L)}}{\text{product (mg)}} \times \frac{\text{drinking water (L)}}{\text{drinking water (L)}}$$

•
•
•

7.7 Normalization

$$\frac{\text{contaminant (mg)}}{\text{solution (L)}} \times \frac{\text{analysis solution (L)}}{\text{product (g)}} \times \frac{1\text{-g}}{1,000\text{-mg}} \times \frac{\text{product (mg)}}{\text{drinking water (L)}} \times \frac{1,000\text{-}\mu\text{g}}{1\text{-mg}} = \frac{\text{contaminant } (\mu\text{g})}{\text{drinking water (L)}}$$

[analysis solution]
[lab prep solution]
[MUL]
[at the tap exposure]

$$\frac{\text{[analysis result]}}{\text{contaminant } (\mu\text{g})} \times \frac{\text{[lab prep volume]}}{\text{lab solution (L)}} \times \frac{\text{[MUL]}}{\text{product (mg)}} = \frac{\text{[at-the-tap exposure]}}{\text{normalized contaminant } (\mu\text{g})}$$

$$\frac{\text{lab solution (L)}}{\text{product (mg)}} \times \frac{\text{drinking water (L)}}{\text{drinking water (L)}}$$

•
•
•

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8.7.1 General

$$\begin{array}{ccccccc}
 \text{laboratory} & & \text{analysis solution (L)} & & 1\text{-g} & & \text{product dosage} & & \text{normalized} \\
 \text{contaminant} & \times & & \times & & \times & \text{(mg/L)} & = & \text{contaminant} \\
 \text{concentration} & & \text{product (g)} & & 1,000\text{-mg} & & & & \text{concentration} \\
 \\
 \frac{\text{[analysis result]}}{\text{lab solution (L)}} & \times & \frac{\text{[lab prep volume]}}{\text{product (mg)}} & \times & \frac{\text{[product dosage / residual]}}{\text{drinking water (L)}} & = & \frac{\text{[at-the-tap exposure]}}{\text{drinking water (L)}} \\
 \frac{\text{contaminant } (\mu\text{g})}{\text{lab solution (L)}} & \times & \frac{\text{lab solution (L)}}{\text{product (mg)}} & \times & \frac{\text{product (mg)}}{\text{drinking water (L)}} & = & \frac{\text{normalized contaminant } (\mu\text{g})}{\text{drinking water (L)}}
 \end{array}$$

Rationale: Updated the tables in Section 4.7.1, 4.7.2, 5.7, 7.7 and 8.7.1 for consistency per the 2020 DWA-TC JC meeting discussion.

BSR/UL 217, Standard for Safety for Smoke Alarms

PROPOSAL

1. Low Frequency Sound Format

84 Audibility Test

84.1 General

84.1.1 ~~Except as permitted in 84.2.1, the alarm sounding appliance, either integral with the smoke alarm or intended to be connected separately, The sound level of an alarm shall be capable of providing for at least 4 minutes of alarm as measured in 84.2 and 84.3.1A, a sound output equivalent to that of an omnidirectional source with an A-weighted sound pressure level of at least 85 decibels (dB) at 3.05 m (10 ft) with two reflecting planes assumed. To determine compliance with this paragraph the method described in 84.2.1—84.3.2 is to be employed. It is appropriate for alarms to be tested with the horn duty cycle specified in 38.2, Standardized alarm signal, defeated and emitting a continuous tone. In addition, the signal format of a low frequency alarm shall conform to the description in 84.5, Low frequency alarm signal format.~~

84.2 Sound output measurement

84.2.1 The sound power output of the alarm shall be measured in a reverberation room using procedures outlined in ANSI ASA Standard S12.51 (Acoustics Determination of Sound Power Levels of Noise Sources using Sound Pressure Precision Method for Reverberation Rooms). The sound power in each 1/3 octave band shall be determined using the comparison method. The A-weighting factor shall be added to each 1/3 octave band. The total power is to be determined on the basis of actual power. The total power is then to be converted to an equivalent sound pressure level for a radius or 3.05 m (10 ft) using the following formula:

$$L_p = L_w - 20 \log_{10} R - 0.6$$

Where:

L_p is converted sound pressure level,

L_w is the sound power level measured in the reverberation room, and

R is the radius for the converted sound pressure level (10 ft).

An additional 6 dBA is to be added to allow for two reflecting planes.

84.2.2 Each alarm is to be mounted to a 19.1 mm (3/4 in) plywood board measuring 610 by 610 mm (2 by 2 ft), supported in a vertical plane, and positioned at an angle of 45 degrees to the walls of the reverberation room. A supplemental remote sounding appliance intended for table top use is to be placed in the center of a 19.1 mm (3/4 in) plywood board measuring 610 by 610 mm (2 by 2 ft), supported in a horizontal plane.

84.2.3 ~~For this test an AC powered alarm is to be energized from a source of rated voltage and frequency. A battery powered alarm is to be energized from batteries under each of the following conditions along the trouble signal level curve illustrated in Figure 56.2, Trouble level determination, or equivalent:~~

~~a) Nondischarged battery (a battery with some unknown shelf life, such as those purchased at a retail outlet) with enough added resistance to obtain a trouble signal (Point D of Figure 56.2), or the maximum resistance for the particular battery based on documented data, whichever is less.~~

~~b) Battery depleted to the trouble signal level voltage, no added resistance.~~

~~The equivalent of a battery shall be identified as a voltage source with a series resistance adjusted to a level at which a trouble signal is obtained during the normal standby condition. The resistance and voltages used are to be those that were determined during the Circuit Measurement Test, Section 56.~~

84.2.3A At least two samples shall be tested. Units intended for hard wired multiple-station connection shall be tested as a single station and also be tested interconnected as multiple-stations. When connected in the multiple station configuration, the maximum line resistance as defined in 57.2.2 (Undervoltage test) shall be connected in line with the alarm under test.

~~84.2.4 At least two samples shall be tested. Units intended for multiple-station connection shall also be tested interconnected as multiple-stations with the maximum line resistance as defined in 57.2.2 (Undervoltage test). For AC-powered units employing a non-rechargeable standby battery, the measurement shall be made with the smoke alarm connected to a rated AC voltage source and a rated voltage battery. Measurements shall also be made with the AC power de-energized and the alarm energized from the standby battery depleted to 85 percent of the battery's rated battery voltage, or at the voltage level at which a trouble signal is obtained. For an AC unit employing a rechargeable standby battery, the measurement is to be made using a fully recharged battery.~~

84.2.5 Alarms other than a low frequency alarms, when energized as described in 84.2.4 shall provide a sound output equivalent to that of an omnidirectional source with an A-weighted sound pressure level of at least 85 decibels (dB) at 3.05 m (10 ft) with two reflecting planes assumed.

84.2.6 A low frequency alarm when energized as described in 84.2.4 shall a sound output equivalent to that of an omnidirectional source with an A-weighted sound pressure level of at least 79 decibels (dB) at 3.05 m (10 ft) with two reflecting planes assumed.

84.2.7 A primary battery powered alarm is to be energized from a power supply simulating batteries along the trouble signal level curve illustrated in Figure 56.2, Trouble level determination, or equivalent. The simulated battery shall be identified as a voltage source with a series resistance adjusted to a level at which a trouble signal is obtained during the normal standby condition. The resistance and voltages used are to be those that were determined during the Circuit Measurement Test, Section 56 under each of the following conditions:

a) A voltage simulating a battery with some unknown shelf life, such as those purchased at a retail outlet) with enough added resistance to obtain a trouble signal (Point D of Figure 56.2), or the maximum resistance for the particular battery based on documented data, whichever is less.

b) A voltage simulating a battery depleted to the trouble signal level voltage, no added resistance (point F of figure 56.2), and a voltage and resistance in between (point E of figure 56.2).

84.2.8 Sound levels for alarms other than a low frequency alarm while energized as described in 84.2.7, shall produce a minimum sound level of 85 dBA at 3.05 m (10 ft). In addition to the sound levels required in 84.2.8, the sound level over time of a primary battery alarm shall also comply with the requirements in 84.3.1.

84.2.9 The sound level of an alarm with the low frequency alarm format signal while energized in 84.2.7, shall provide a minimum sound level of 79 dBA at 3.05 m (10 ft). In addition to the sound levels required in 84.2.7, the sound level over time of an low frequency alarm shall also comply with the requirements in 84.3.1A.

84.3 Alarm duration test

84.3.1 An alarm sounding appliance of an alarm other than a low frequency alarm, and powered by a primary or a non-rechargeable secondary battery that has been discharged to the trouble level condition, shall provide the equivalent of 85 dBA minimum at 3.05 m (10 ft) for 1 minute of continuous alarm operation and shall provide at least 82 dBA up to 4 minutes of alarm operation.

84.3.1A A low frequency alarm sounding appliance of an alarm powered by a primary or non-rechargeable secondary battery that has been discharged to the trouble level condition, shall provide the equivalent of 79 dBA minimum at 3.05 m (10 ft) for 1 minute of continuous alarm operation and shall provide at least 76 dBA up to 4 minutes of alarm operation.

84.3.2 To determine compliance with 84.3.1 or 84.3.1A a measurement shall be made under the following conditions. The ambient noise level is to be at least 10 dB below the measured level produced by the signaling appliance. The alarm is to be mounted 302 mm (1 ft) from the microphone placed in a direct line with the alarm. The alarm is then to be energized in the alarm condition and the sound output is to be measured at 1-minute intervals, using a sound level meter employing the A-weighting network. A maximum of 3 dBA decrease from the original 1-minute reading after 4 minutes shall ~~determine compliance for a battery-operated alarm that is providing a trouble signal alarm.~~

84.4 Supplementary remote sounding appliances

84.4.1 The sound output of a supplementary remote sounding appliance, intended to be installed in ~~the same room as a user (such as a bedroom), a sleeping area,~~ shall ~~not be less than 85 dBA unless the appliances is meet the low frequency signal format of 84.5,~~ and be marked with the following or equivalent text to indicate the specific use:

“THIS UNIT IS TO BE INSTALLED IN A ROOM OCCUPIED FOR SLEEPING.”

~~Under no circumstances is the sound output to be less than 75 dBA. The alarm signal format shall also comply with the requirement in 84.5, Low frequency alarm signal format.~~

84.5 Low frequency alarm signal format

84.5.1 A low frequency alarm shall produce an acoustical output having a fundamental frequency of 520 (F1) Hz ± 10 percent, with subsequent harmonic frequencies occurring at 1560 (F3), 2600 (F5) and 3640 (F7) Hz ± 10 percent as determined by a Fast Fourier Transform (FFT) analysis of the audible alarm signal.

84.5.2 The FFT measurement shall be a 30 second spectrum averaging of a 12.8 (kHz) frequency span of 2 (Hz) resolution, non-weighted. The spectral analyses shall be performed in a reverberant room per the test setup as described in 84.2.2 (Sound output measurement).

84.5.3 The maximum sound pressure level (dB) of any frequency within the FFT measurement shall be at least 5 dB less than the F1 sound pressure level (dB). The minimum sound pressure level (dB) of the odd harmonics, F3 through F7, shall not be reduced from the F1 sound pressure level by more than 20 dB for F3, 30 dB for F5, and 50 dB for F7.

BSR/UL 1439, Standard for Tests for Sharpness of Edges on Equipment**1. Remove reference to 3M Company Type 4432 tape****PROPOSAL**

Table 5.1
Average values of tapes-dimensions and properties

| | Indicating tape^a | Sensing tape No. 2^b | Sensing tape No. 1^c |
|---|---|---|--|
| Thickness | 0.045 - 0.080 in (1.14 - 2.03 mm) | 0.025 - 0.040 in (0.64 - 1.02 mm) | total with adhesive backing: 0.0045 (0.114 mm) backing: 0.0025 - 0.0035 inch (0.064 - 0.089 mm) |
| Density | 25 - 27 lbs/cubic foot (400 - 433 kg/cubic meter) | 14 - 20 lbs/cubic foot (224 - 321 kg/cubic meter) | - |
| ^a 3M Company Type 4516 or any other tape having the properties in Table 5.1 meets the intent of the requirements. | | | |
| ^b 3M Company Type 4432 , TapeCase Ltd. Type VF 32, or Press-On Inc. Type VF 20103, or any other tape having the properties in Table 5.1 meets the intent of the requirements. | | | |
| ^c Saint Gobain Company #2045-3 or any other tape having the properties in Table 5.1 meets the intent of the requirements. | | | |

2. Revision to test procedure in 7.2**PROPOSAL**

7.2 Each tape is to be applied over ~~approximately 180 degrees~~ a minimum of 90 degrees of the circumference of the test head to prevent stretching of the tape.

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